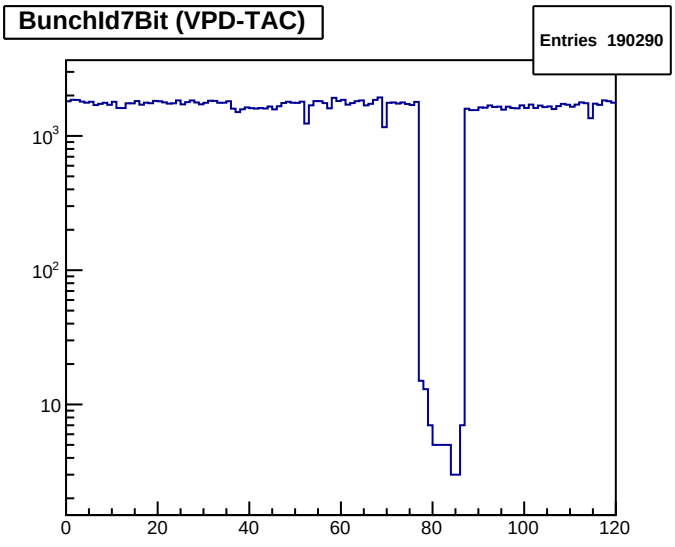
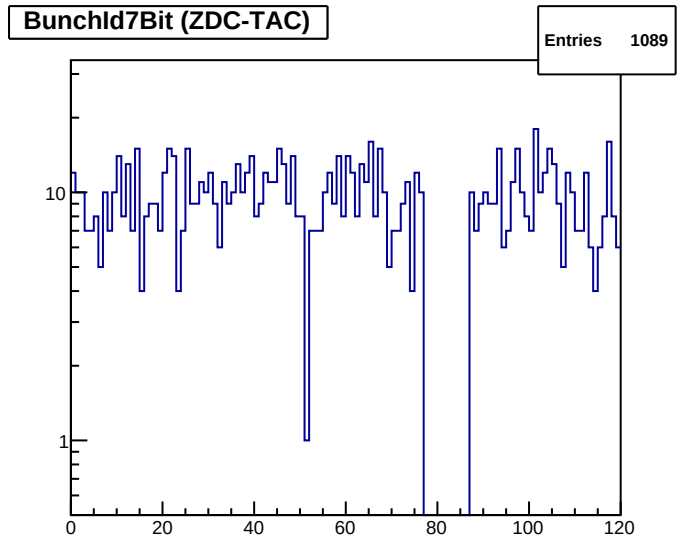
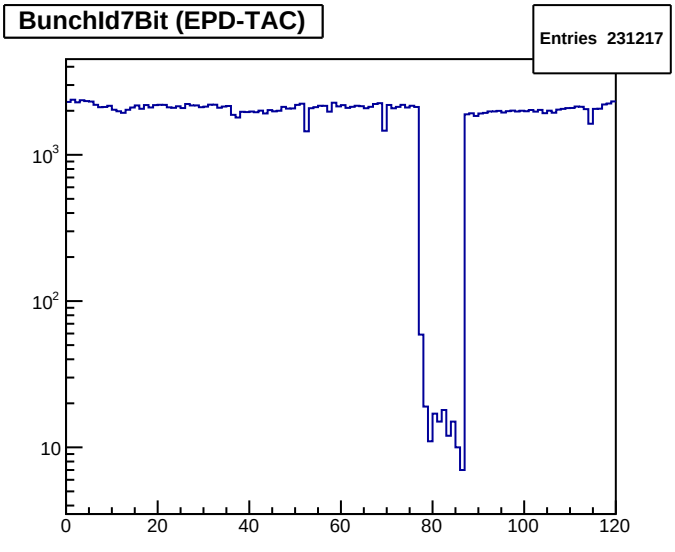
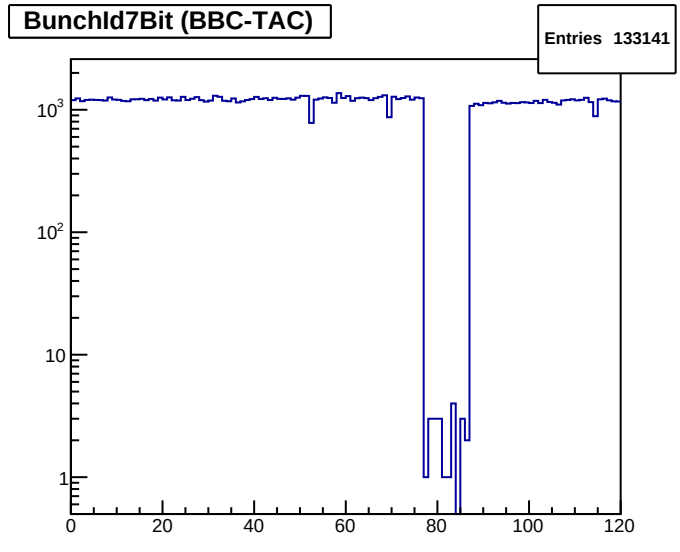
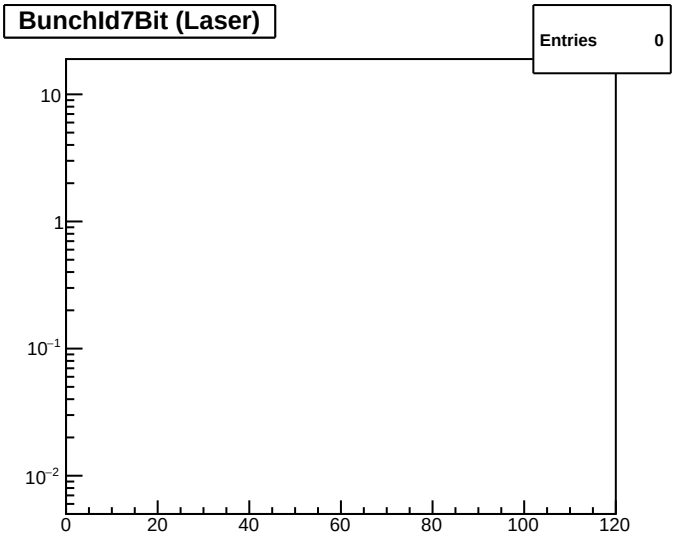
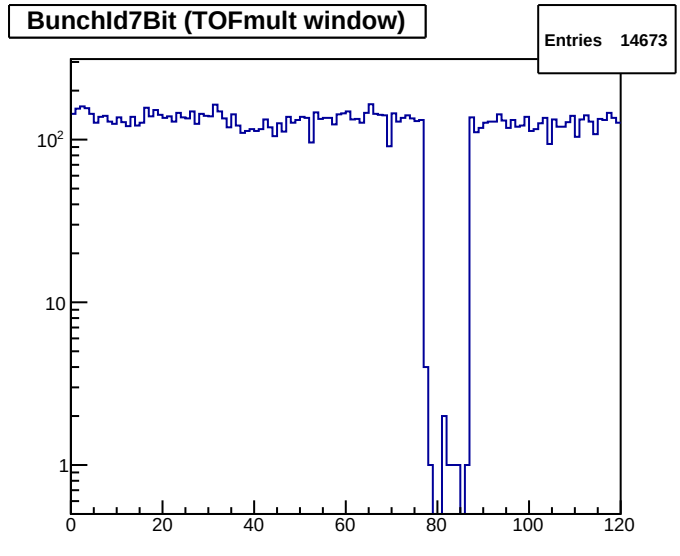

BunchId7Bit (VPD-TAC)
Entries 190290
10^3
10^2
10
0 20 40 60 80 100 120

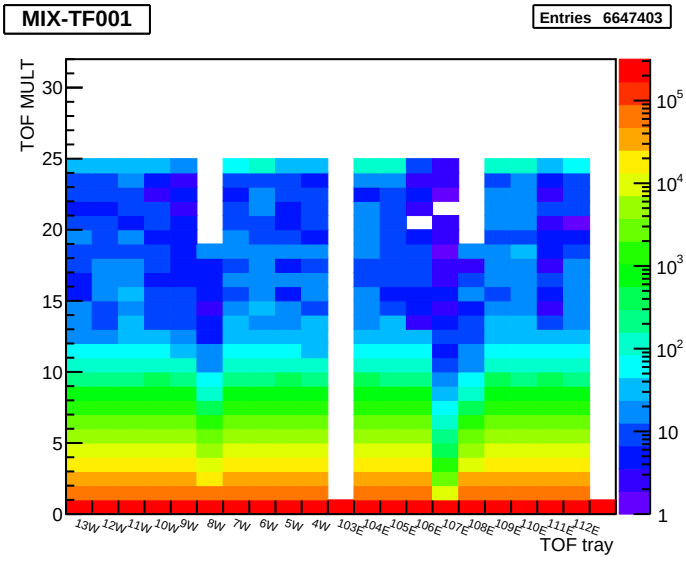

BunchId7Bit (ZDC-TAC)
Entries 1089
10
1
0 20 40 60 80 100 120

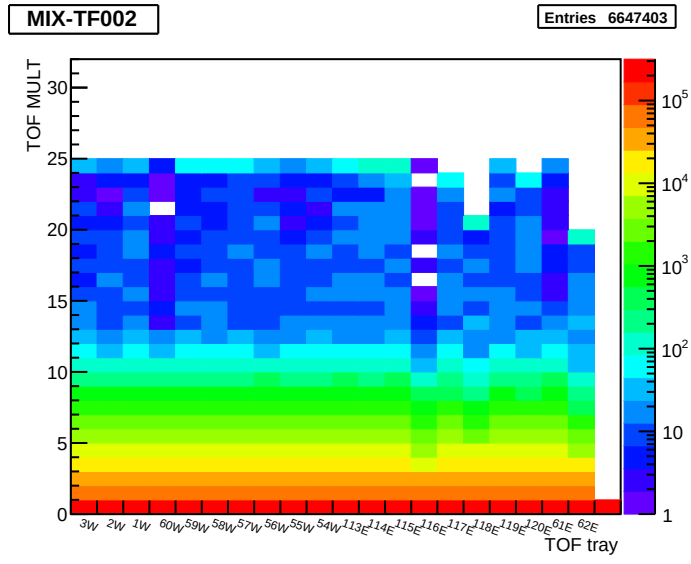

BunchId7Bit (EPD-TAC)
Entries 231217
10^3
10^2
10
0 20 40 60 80 100 120

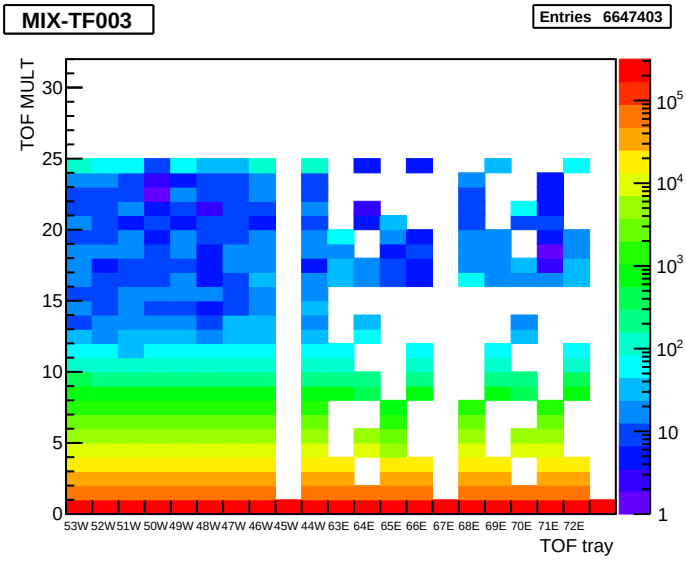

BunchId7Bit (BBC-TAC)
Entries 133141
10^3
10^2
10
1
0 20 40 60 80 100 120

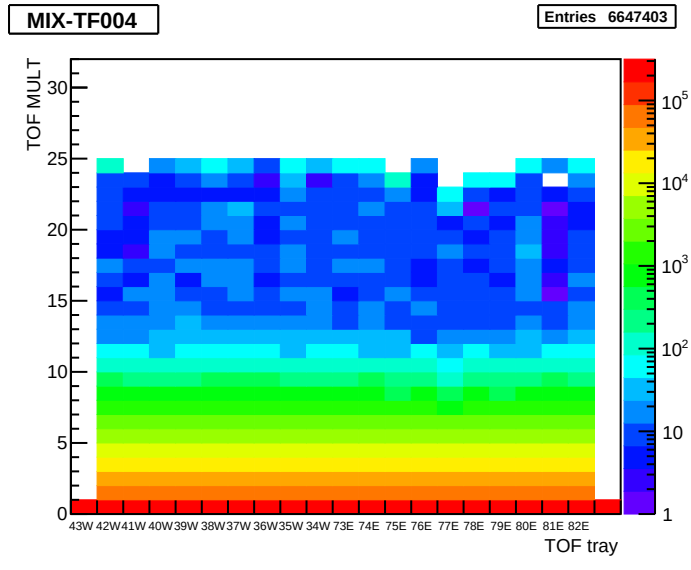

BunchId7Bit (Laser)
Entries 0
10
1
10^{-1}
10^{-2}
0 20 40 60 80 100 120

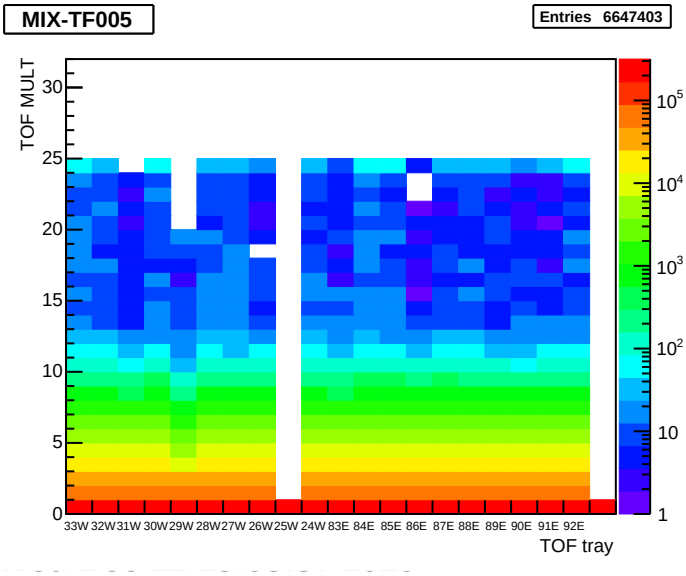

BunchId7Bit (TOFmult window)
Entries 14673
10^2
10
1
0 20 40 60 80 100 120

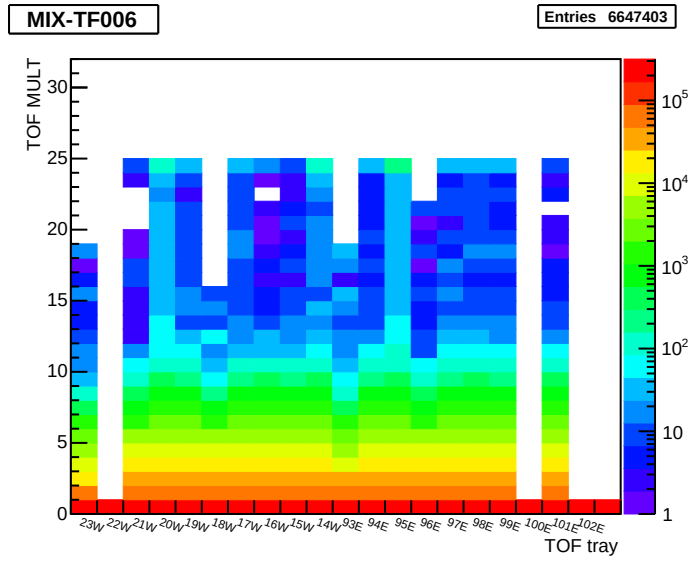

MIX-TF001
Entries 6647403
TOF MULT
TOF tray

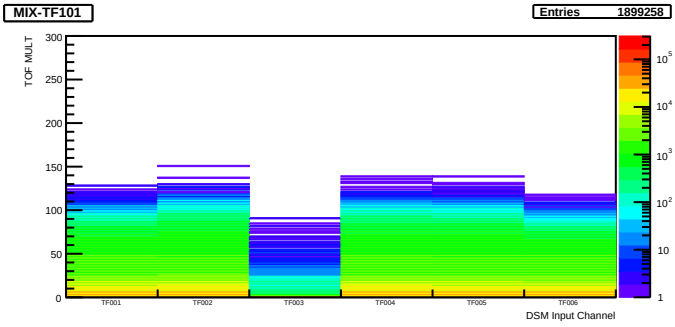

MIX-TF002
Entries 6647403
TOF MULT
TOF tray

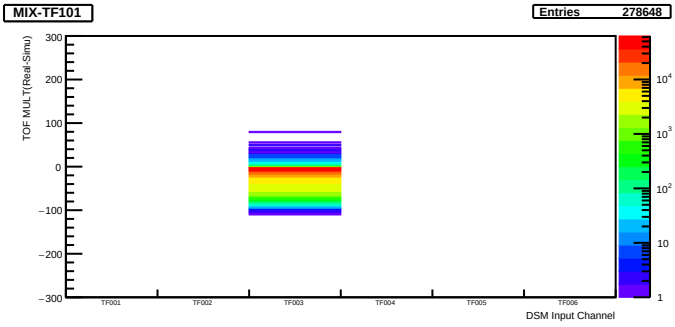

MIX-TF003
Entries 6647403
TOF MULT
TOF tray

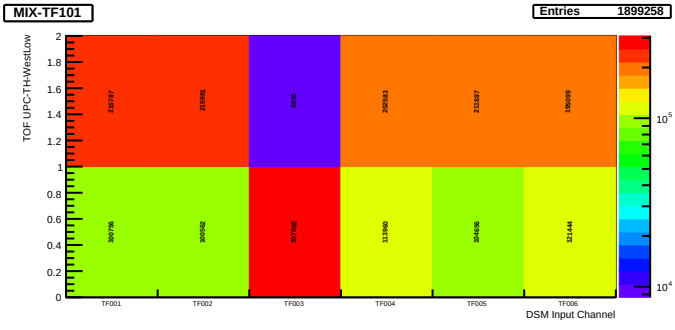

MIX-TF004
Entries 6647403
TOF MULT
TOF tray

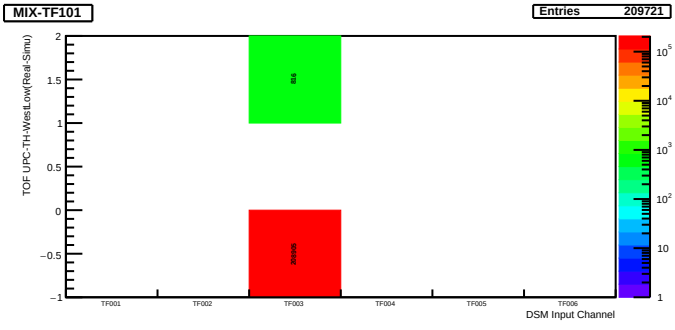

MIX-TF005
Entries 6647403
TOF MULT
TOF tray

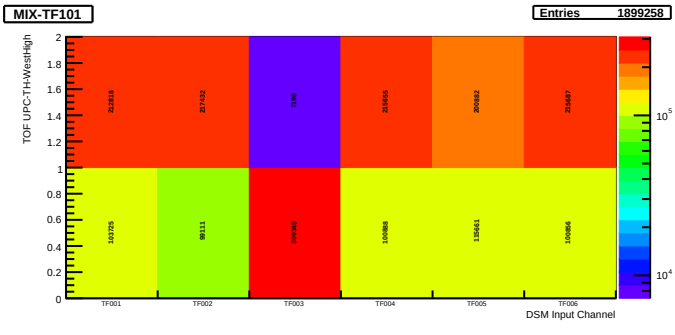

MIX-TF006
Entries 6647403
TOF MULT
TOF tray

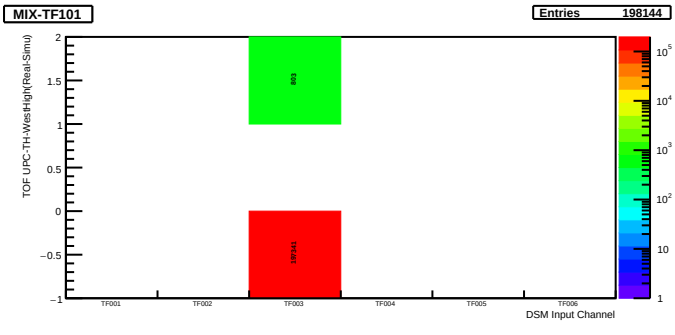

MIX-TF101
Entries 1899258
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

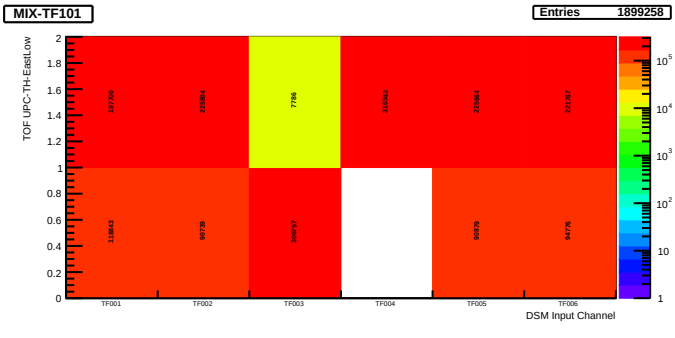

MIX-TF101
Entries 278648
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

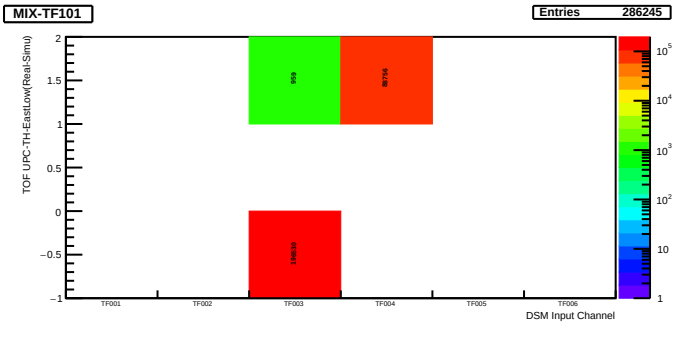

MIX-TF101
Entries 1899258
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

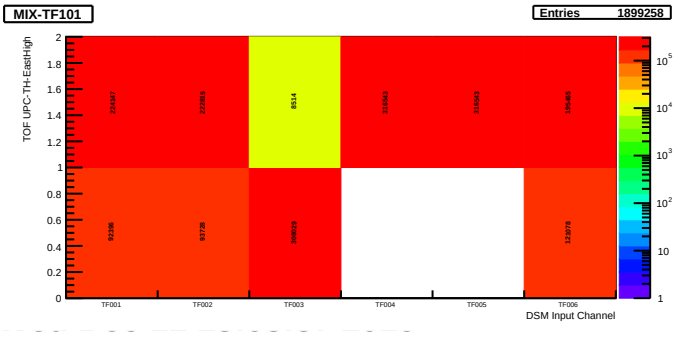

MIX-TF101
Entries 209721
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

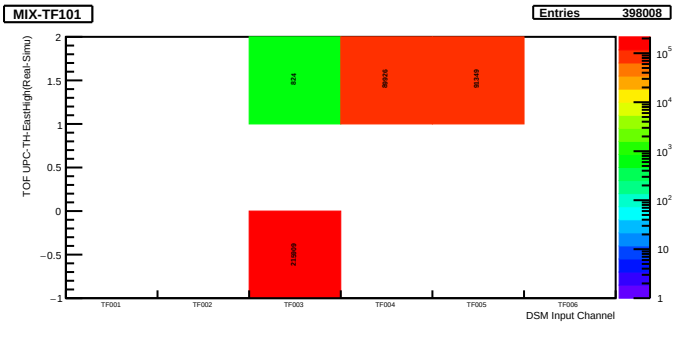

MIX-TF101
Entries 1899258
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

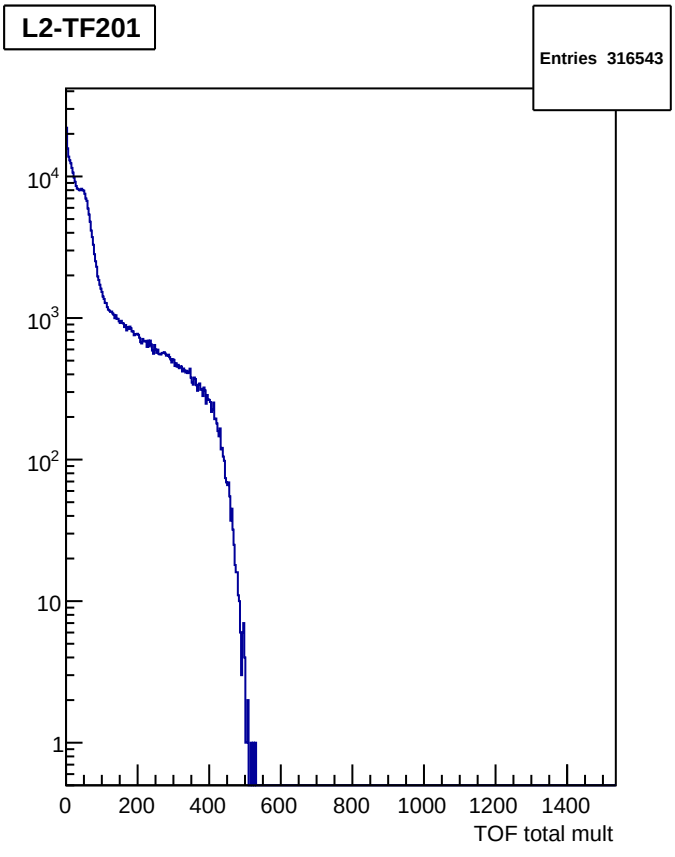

MIX-TF101
Entries 198144
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

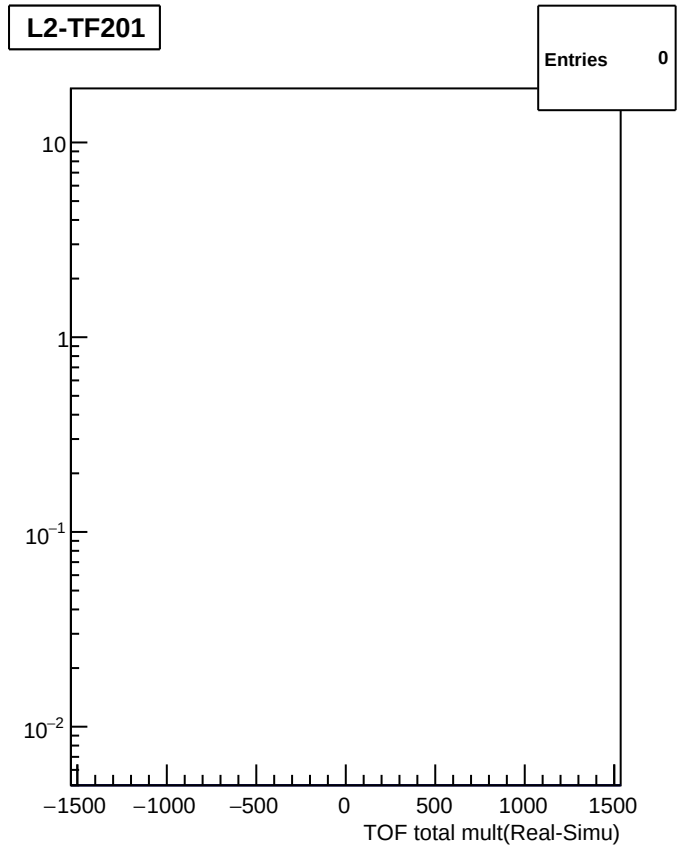

MIX-TF101
Entries 1899258
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

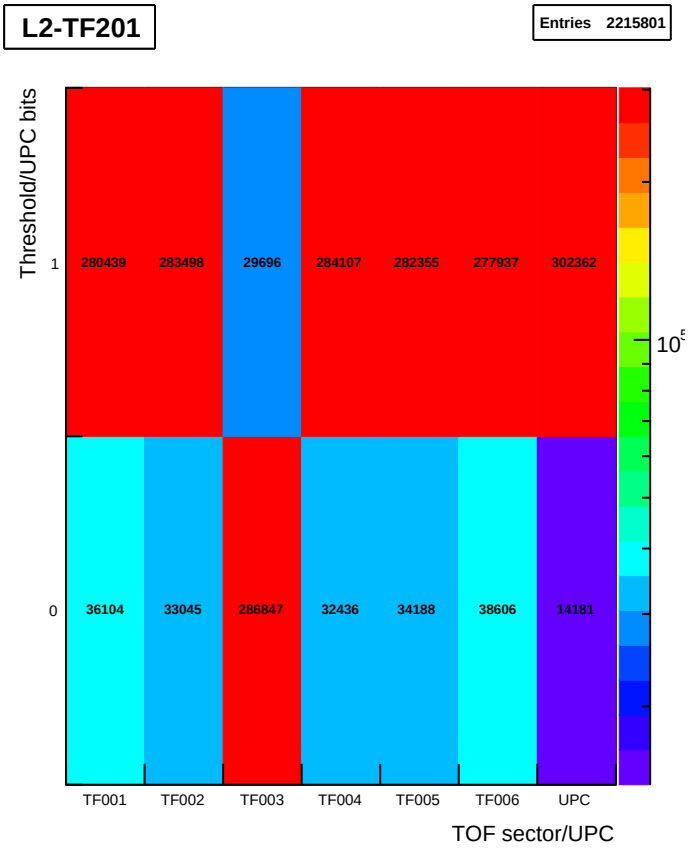

MIX-TF101
Entries 286245
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

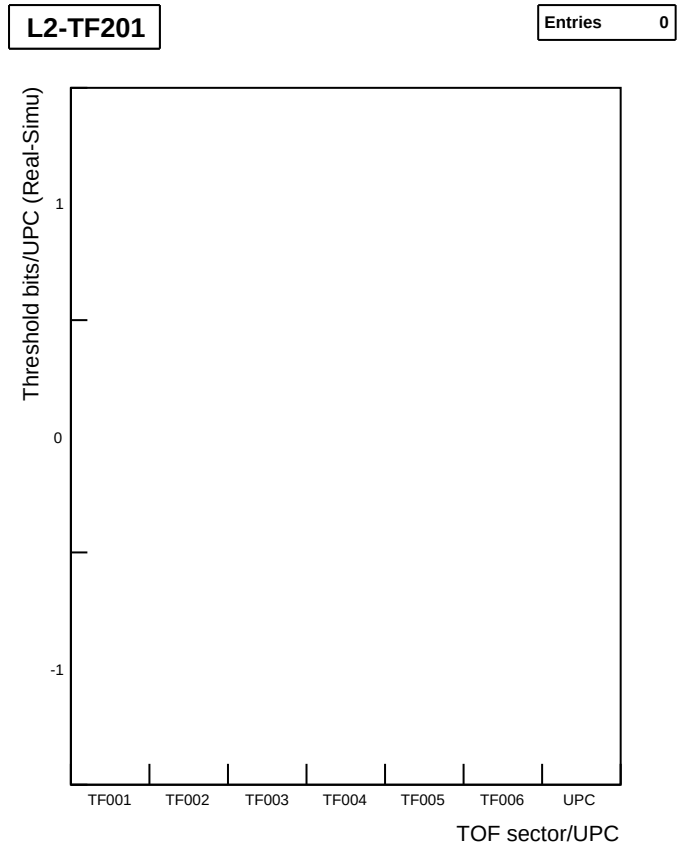

MIX-TF101
Entries 1899258
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

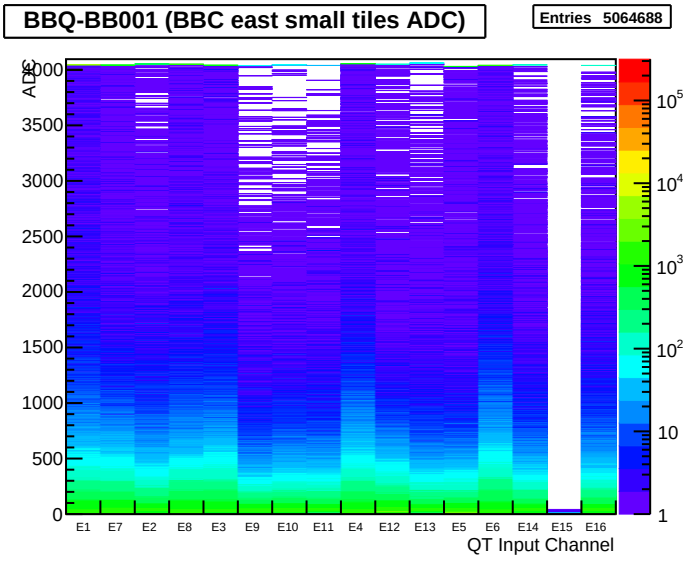

MIX-TF101
Entries 398008
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

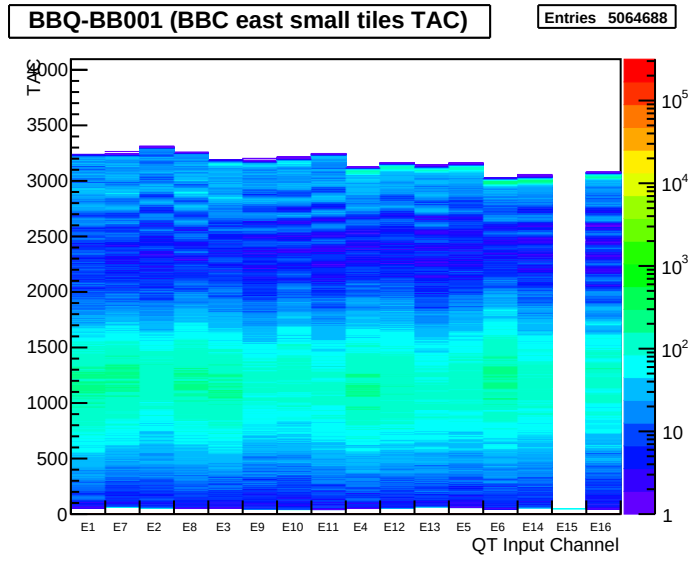

L2-TF201
Entries 316543
TOF total mult

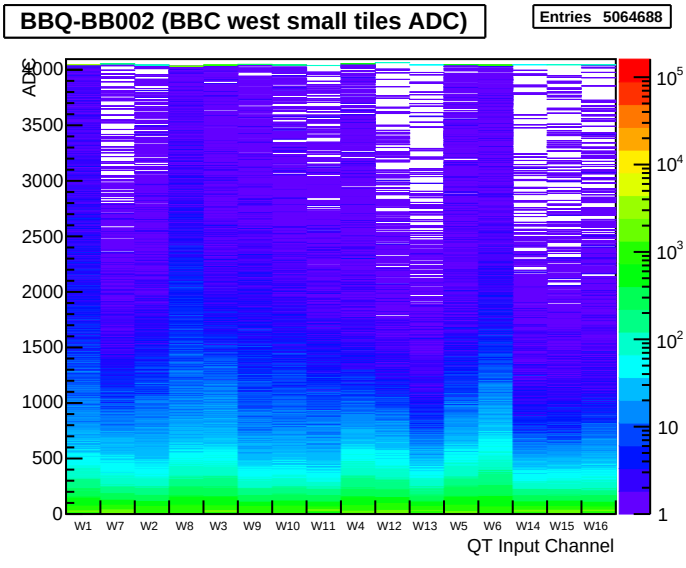

L2-TF201
Entries 0
TOF total mult(Real-Simu)

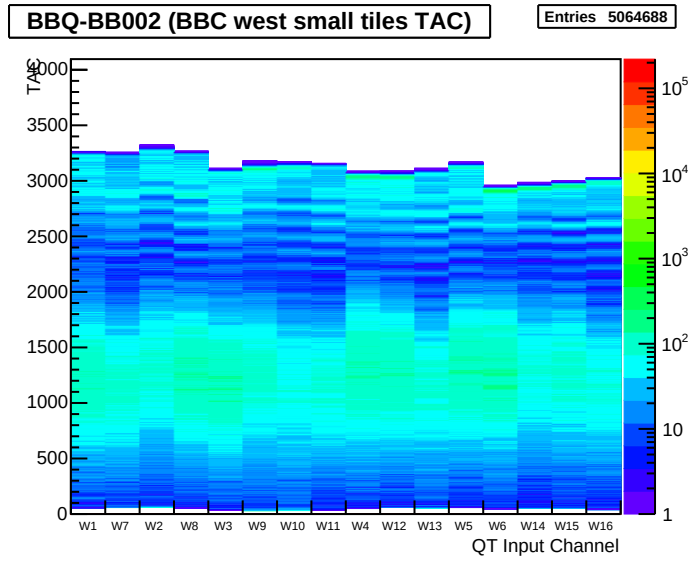

L2-TF201
Entries 2215801
Threshold/UPC bits
280439
283498
29696
284107
282355
277937
302362
36104
33045
286847
32436
34188
38606
14181
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

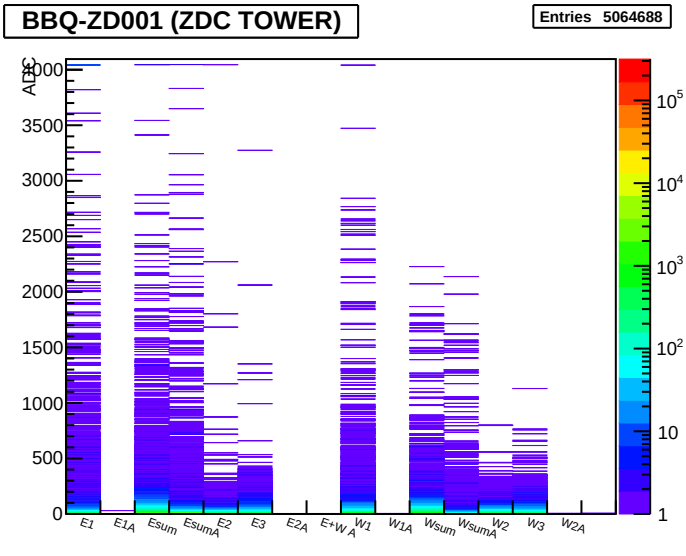

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

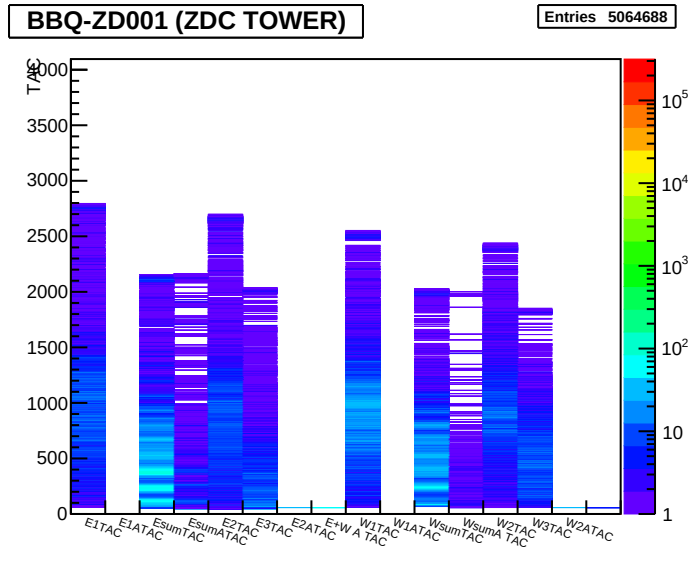

BBQ-BB001 (BBC east small tiles ADC)
Entries 5064688
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

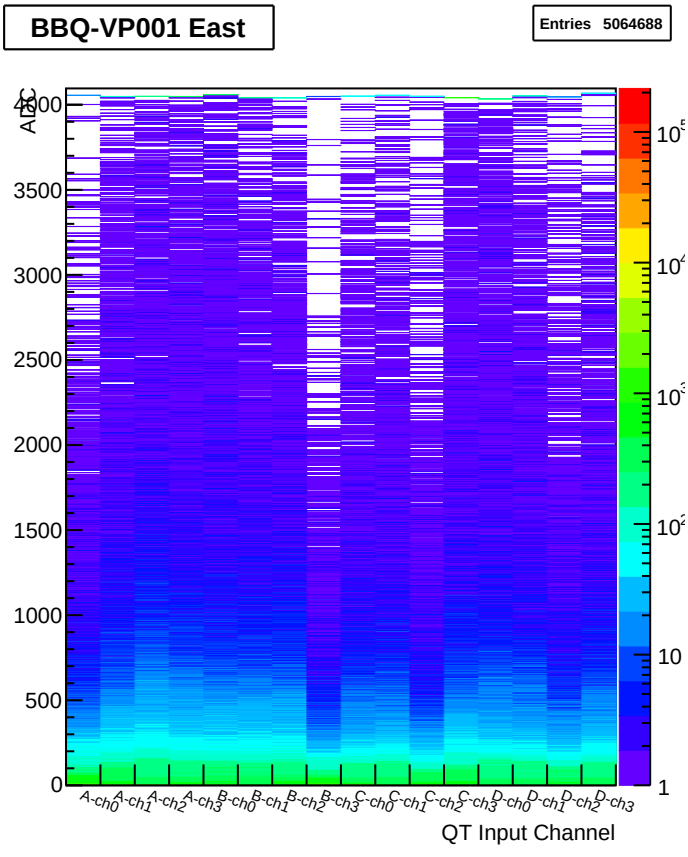

BBQ-BB001 (BBC east small tiles TAC)
Entries 5064688
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

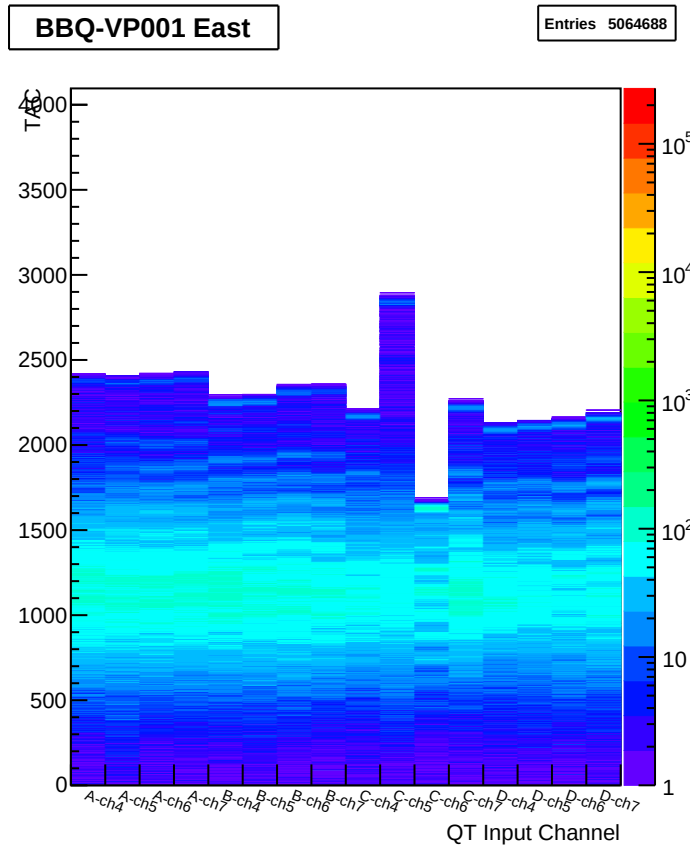

BBQ-BB002 (BBC west small tiles ADC)
Entries 5064688
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

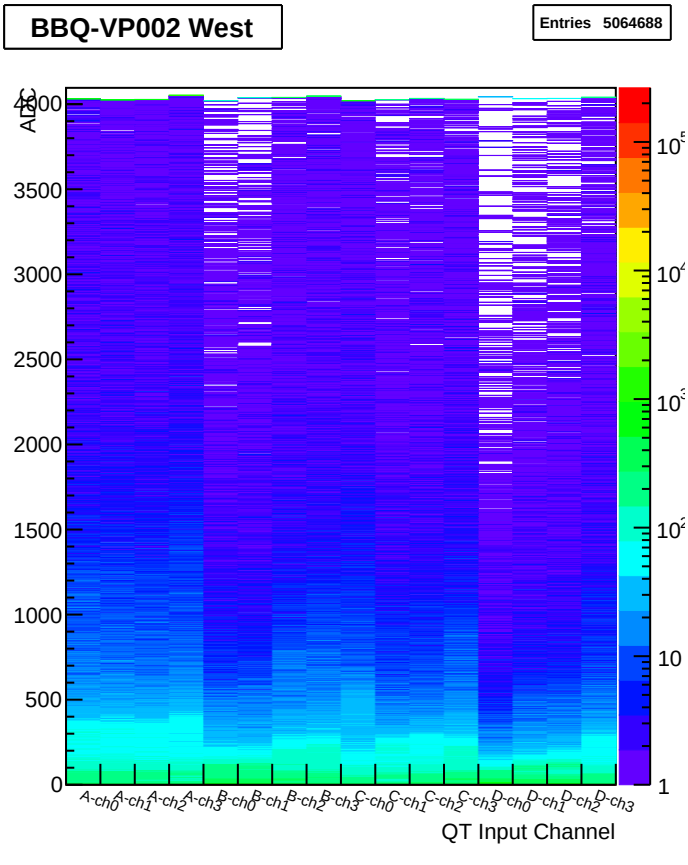

BBQ-BB002 (BBC west small tiles TAC)
Entries 5064688
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

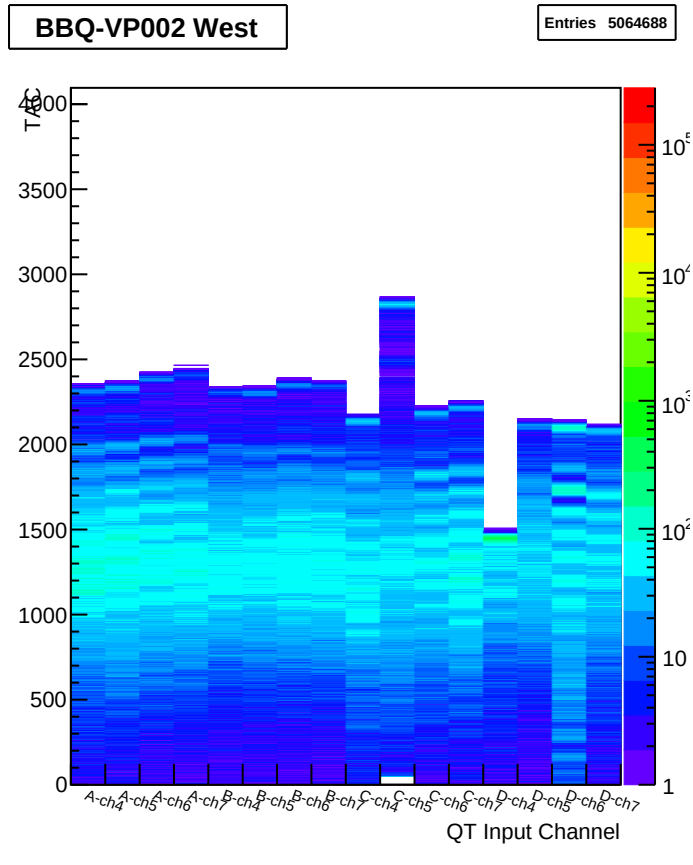

BBQ-ZD001 (ZDC TOWER)
Entries 5064688
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

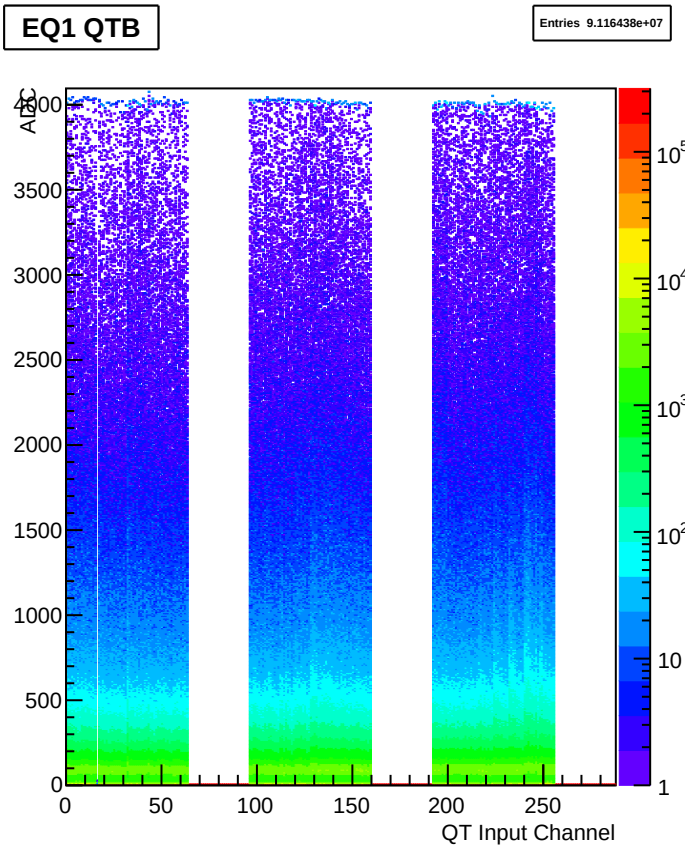

BBQ-ZD001 (ZDC TOWER)
Entries 5064688
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

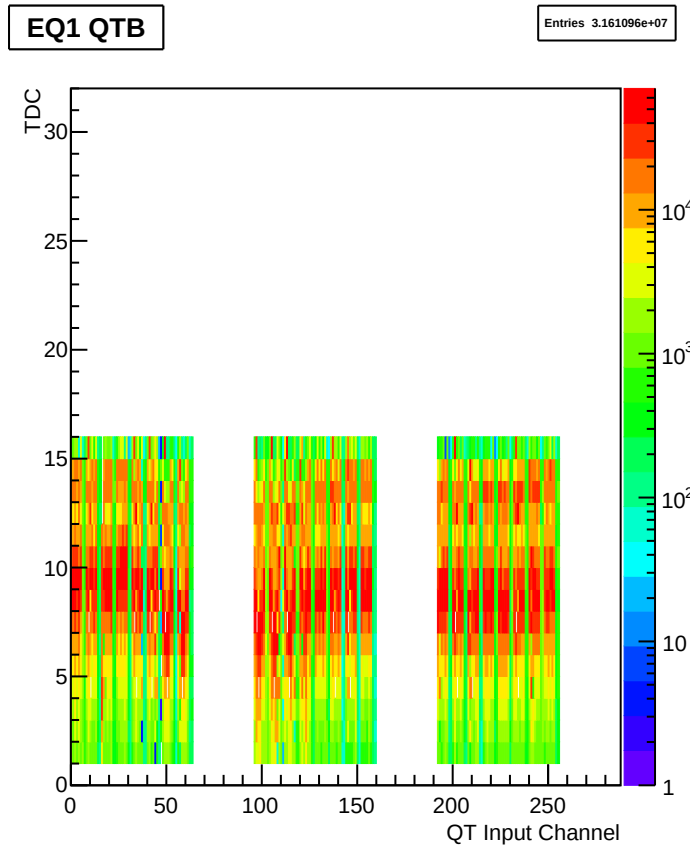

BBQ-VP001 East
Entries 5064688
ADC
QT Input Channel

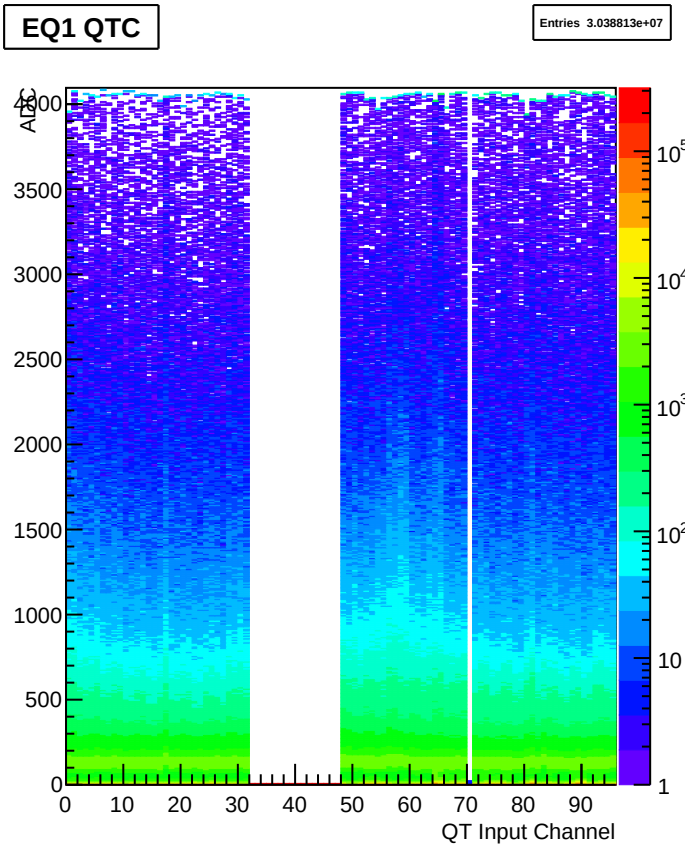

BBQ-VP001 East
Entries 5064688
TADC
QT Input Channel

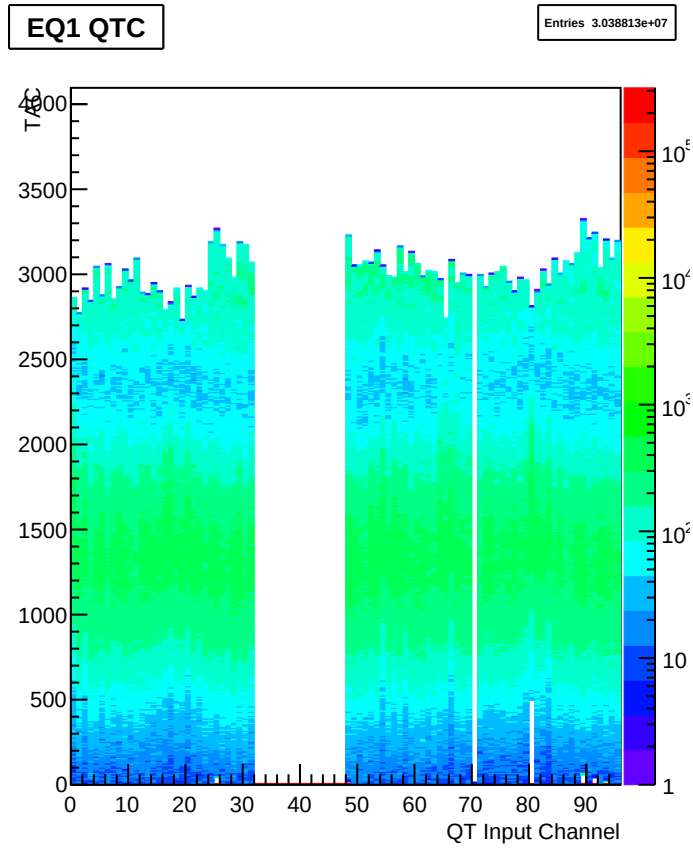

BBQ-VP002 West
Entries 5064688
ADC
QT Input Channel

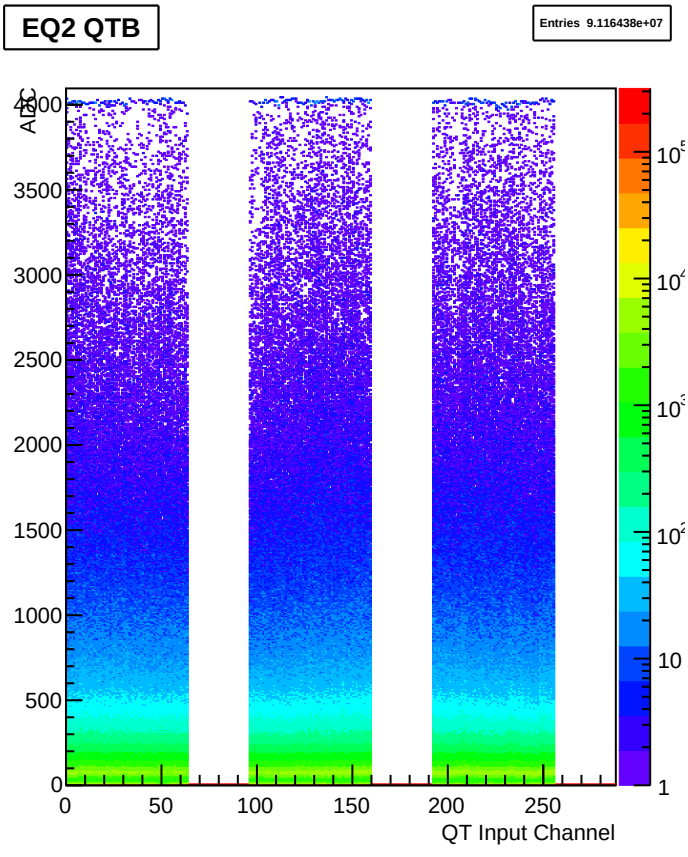

BBQ-VP002 West
Entries 5064688
TADC
QT Input Channel

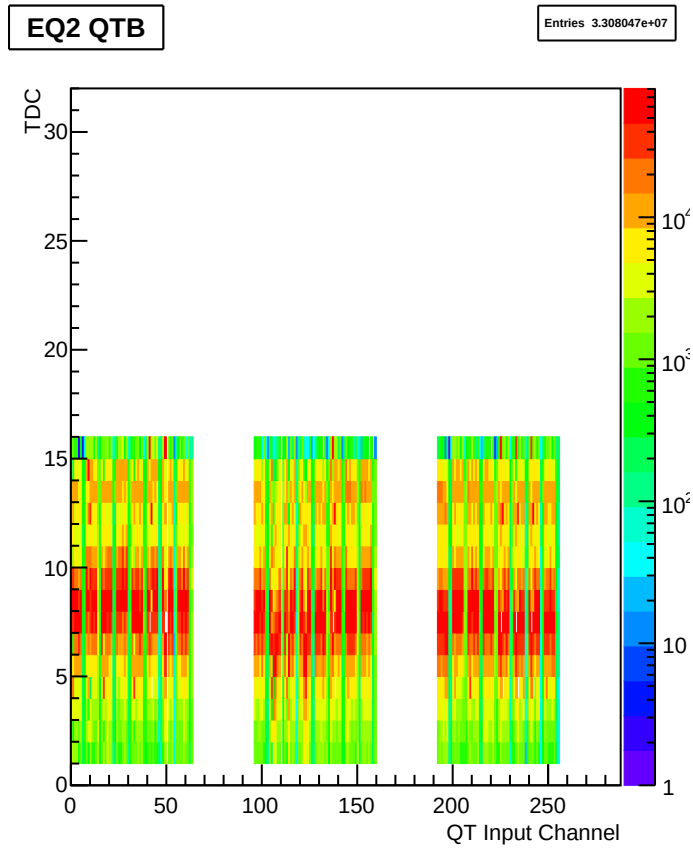

EQ1 QTB
Entries 9.116438e+07
ADC
QT Input Channel

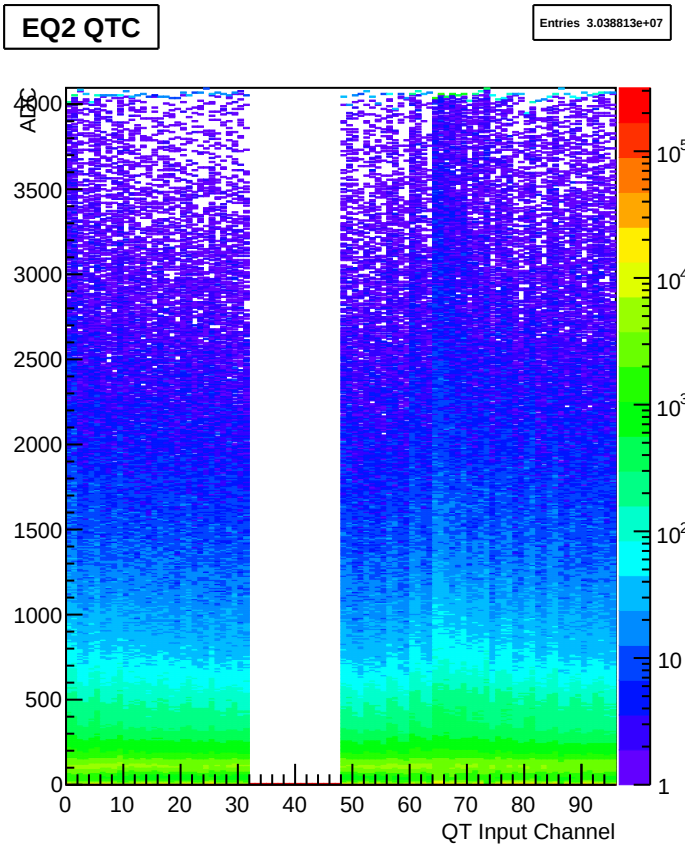

EQ1 QTB
Entries 3.161096e+07
TDC
QT Input Channel

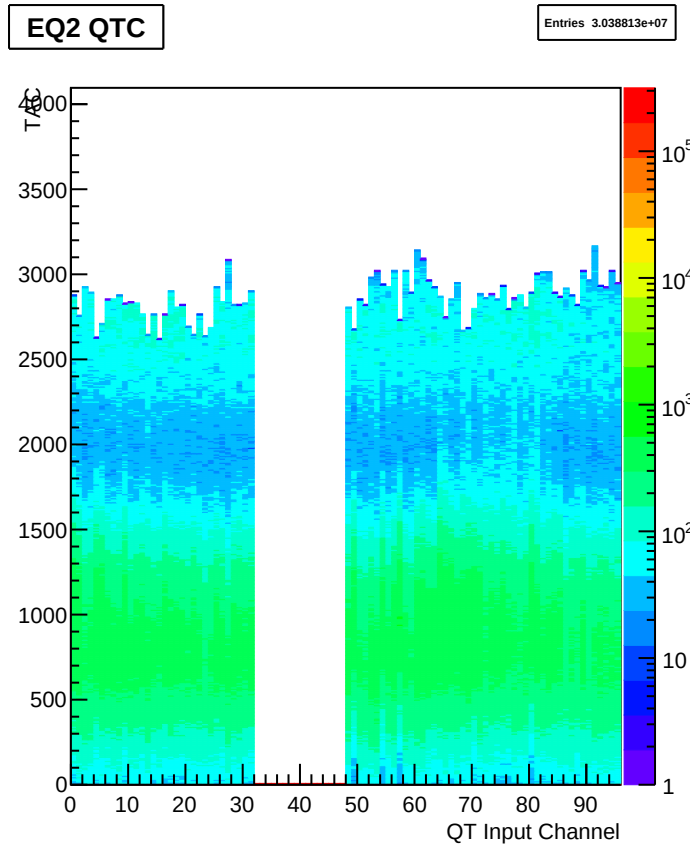

EQ1 QTC
Entries 3.038813e+07
ADC
QT Input Channel

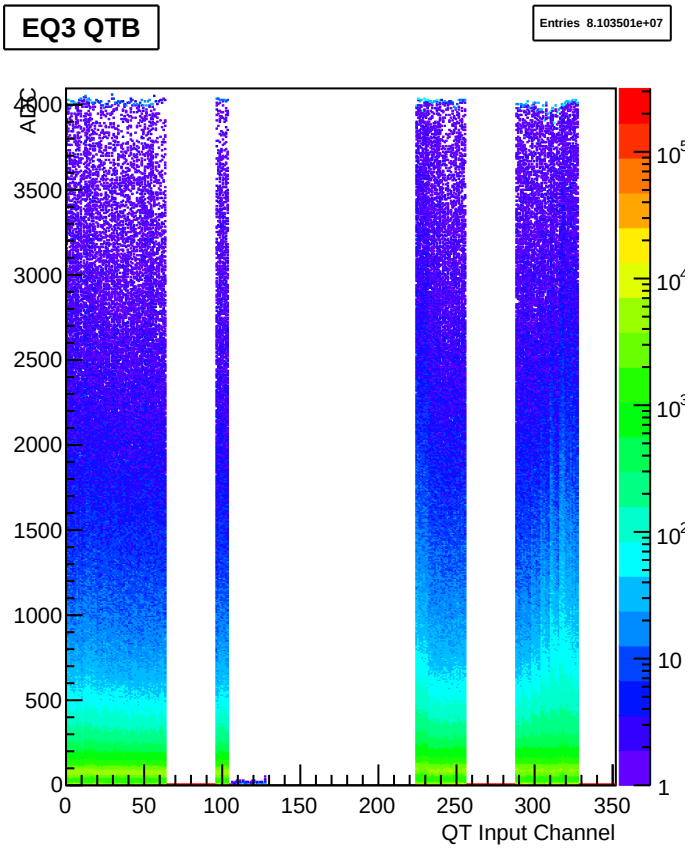

EQ1 QTC
Entries 3.038813e+07
TADC
QT Input Channel

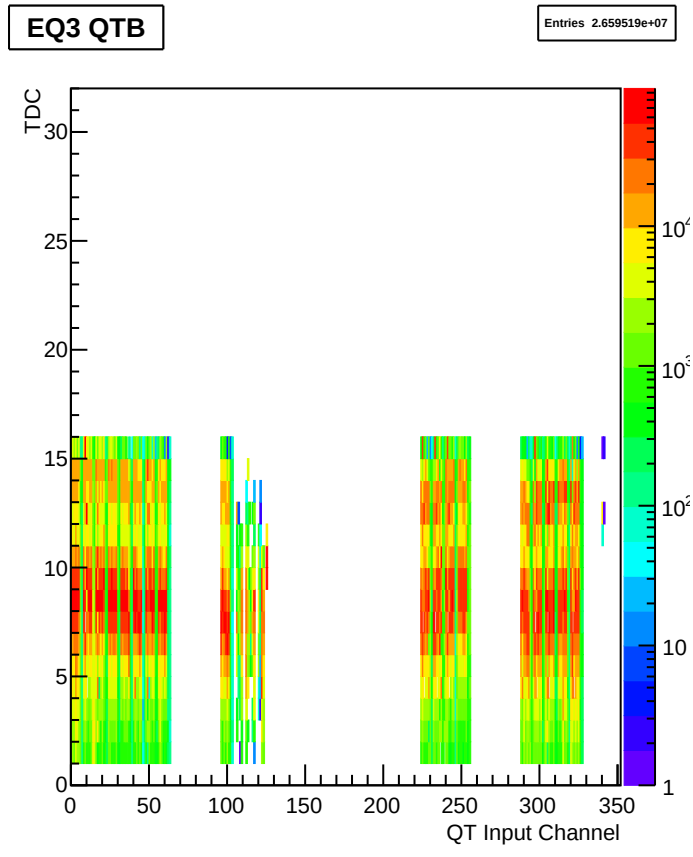

EQ2 QTB
Entries 9.116438e+07
ADC
QT Input Channel

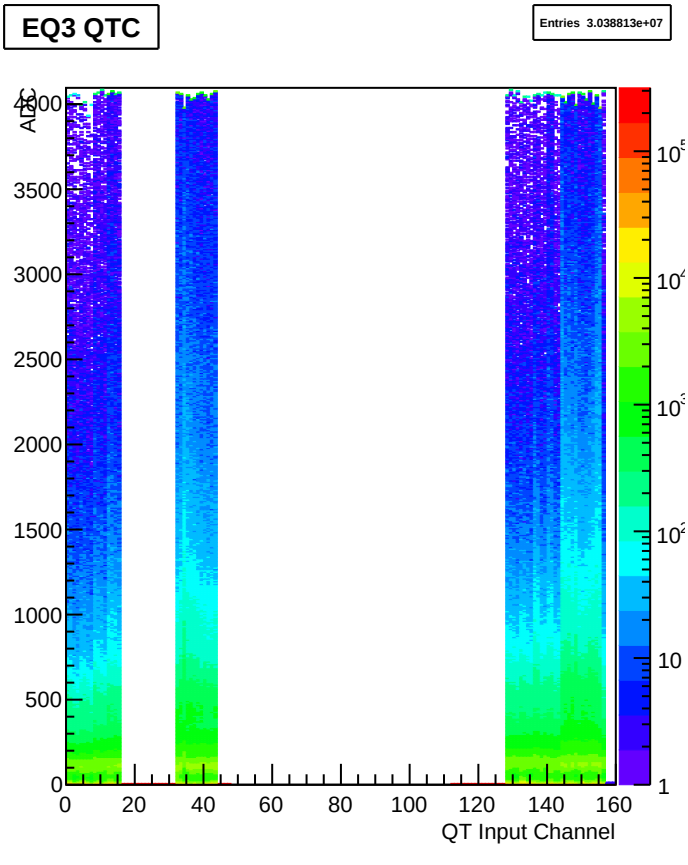

EQ2 QTB
Entries 3.308047e+07
TDC
QT Input Channel

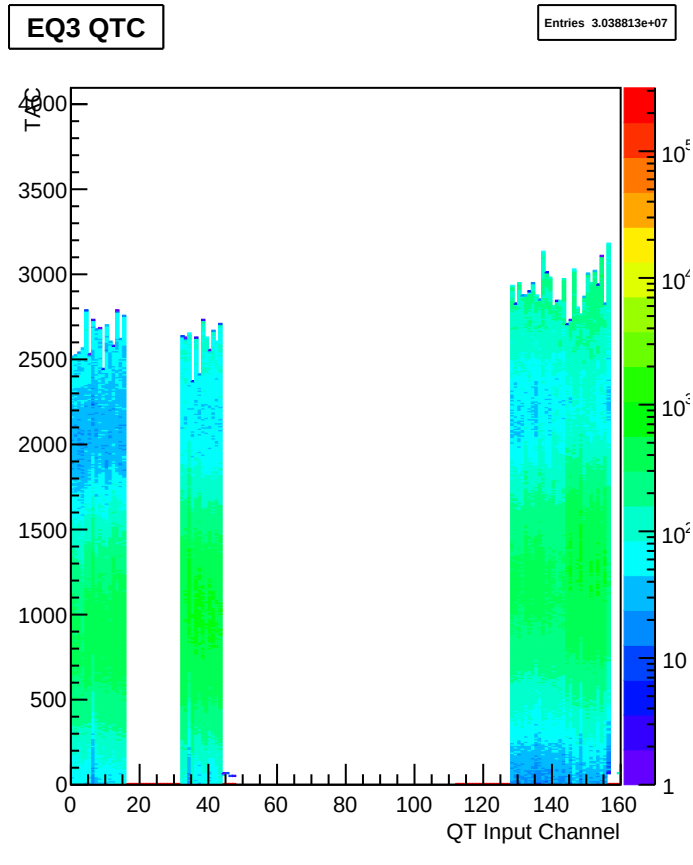

EQ2 QTC
Entries 3.038813e+07
ADC
QT Input Channel

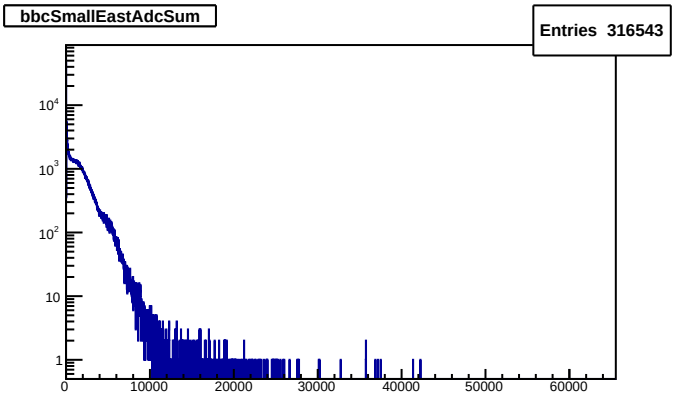

EQ2 QTC
Entries 3.038813e+07
TADC
QT Input Channel

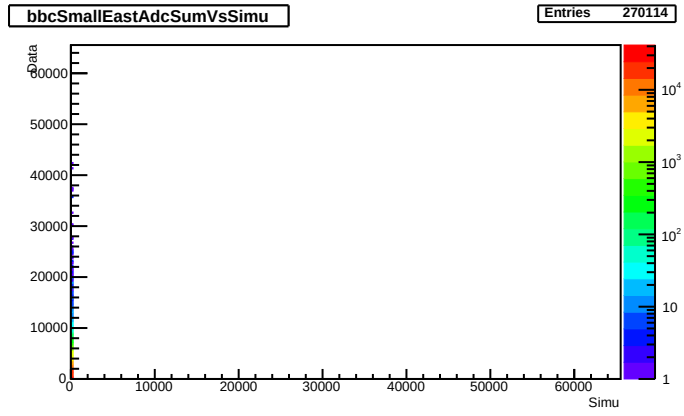

EQ3 QTB
Entries 8.103501e+07
ADC
QT Input Channel

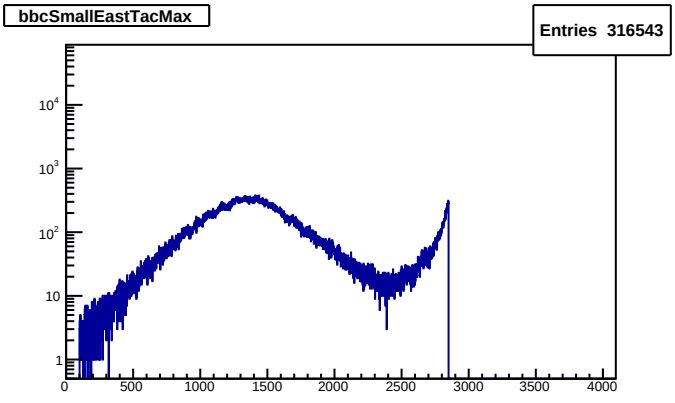

EQ3 QTB
Entries 2.659519e+07
TDC
QT Input Channel

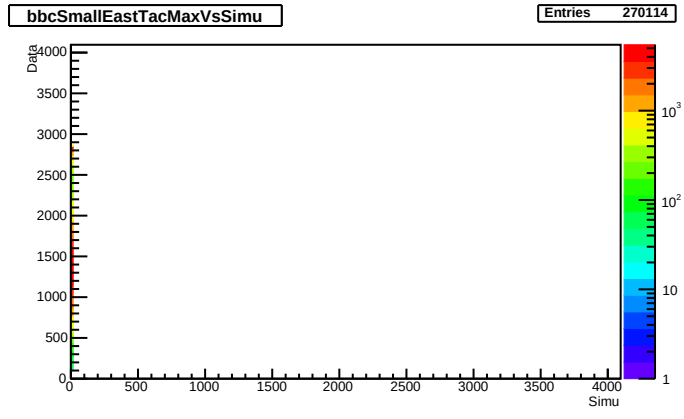

EQ3 QTC
Entries 3.038813e+07
ADC
QT Input Channel

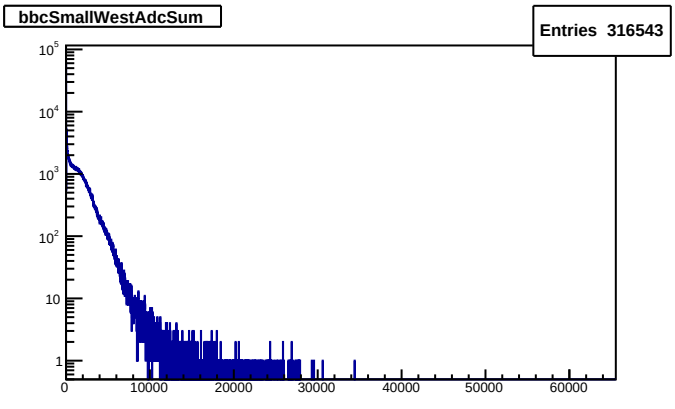

EQ3 QTC
Entries 3.038813e+07
TADC
QT Input Channel

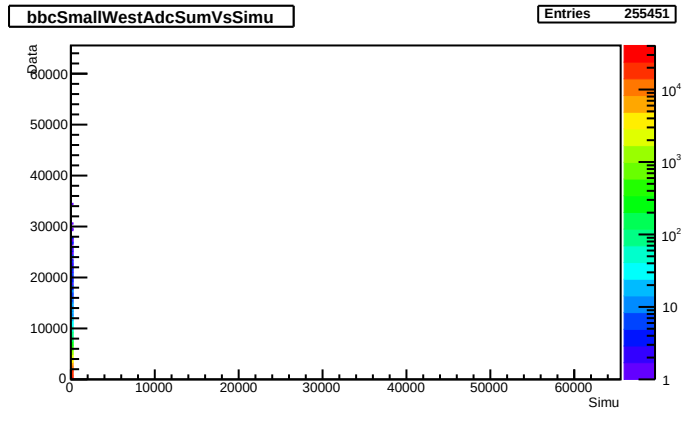

bbcSmallEastAdcSum
Entries 316543

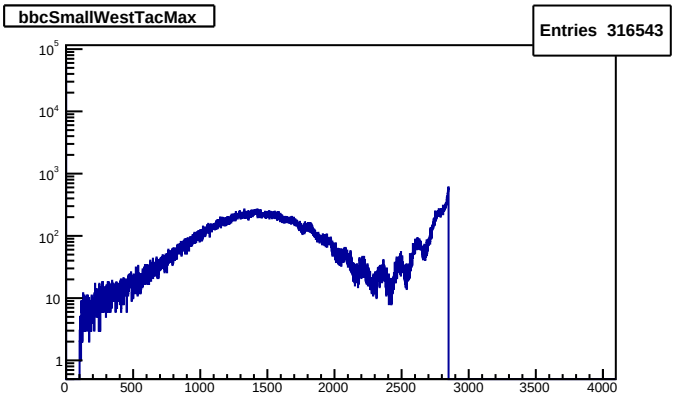

bbcSmallEastAdcSumVsSimu
Entries 270114
Data
Simu

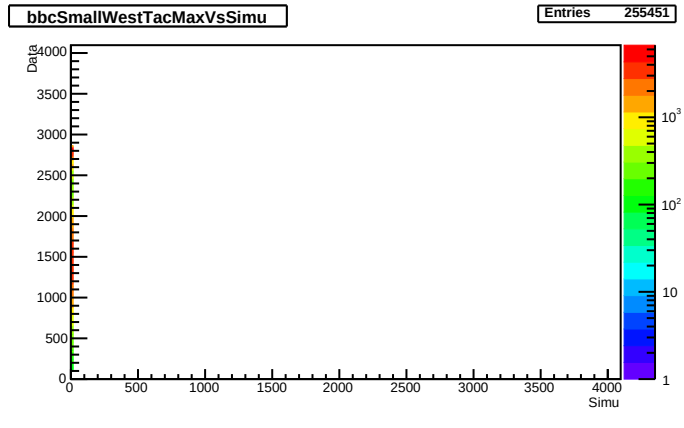

bbcSmallEastTacMax
Entries 316543

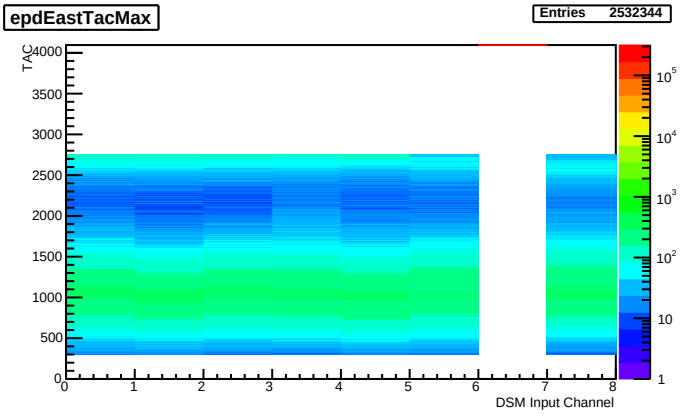

bbcSmallEastTacMaxVsSimu
Entries 270114
Data
Simu

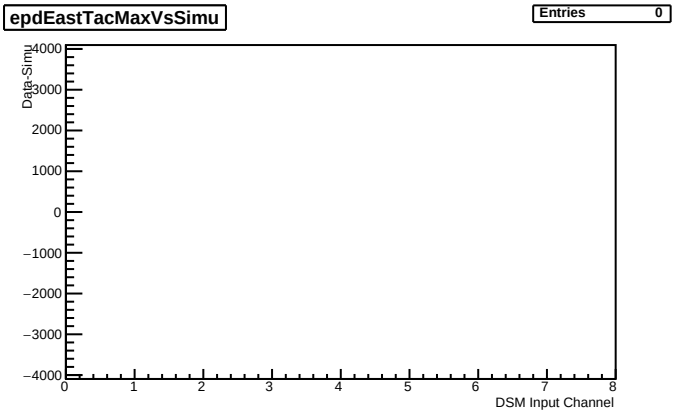

bbcSmallWestAdcSum
Entries 316543

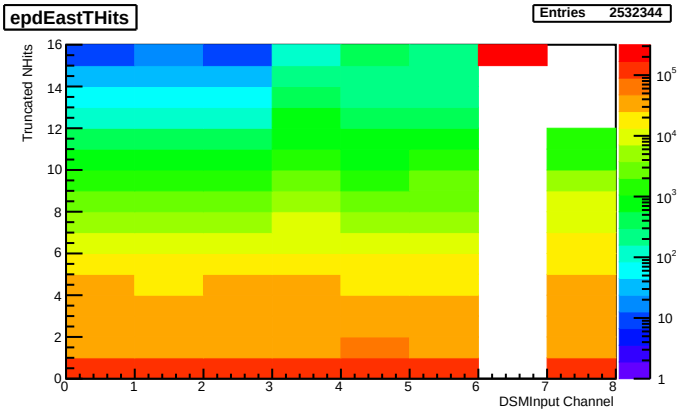

bbcSmallWestAdcSumVsSimu
Entries 255451
Data
Simu

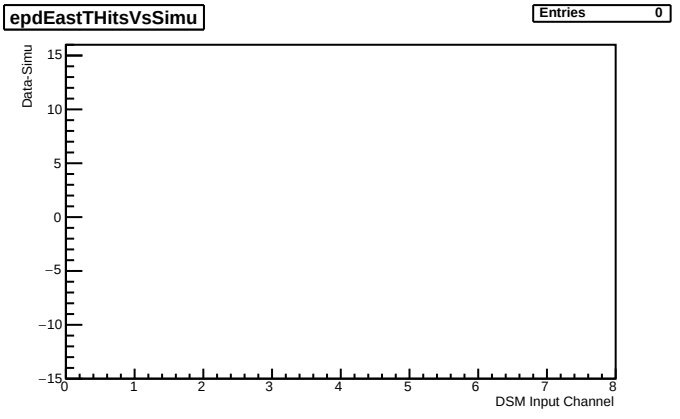

bbcSmallWestTacMax
Entries 316543


bbcSmallWestTacMaxVsSimu
Entries 255451
Data
Simu


epdEastTacMax
Entries 2532344
TAC
DSM Input Channel


epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdEastTHits
Entries 2532344
Truncated NHits
DSMInput Channel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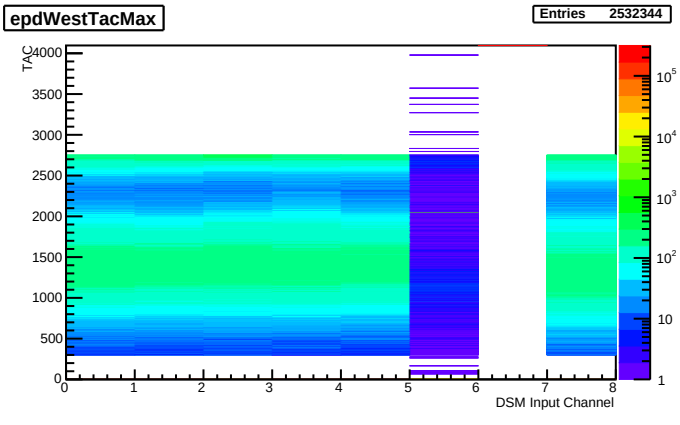
Entries 0
Data-Simu
DSM Input Channel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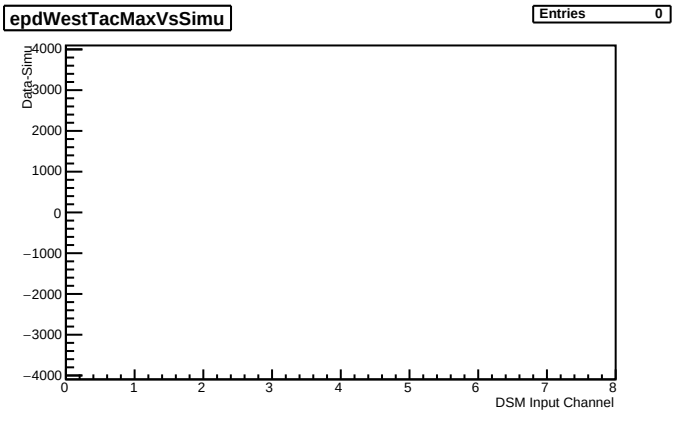
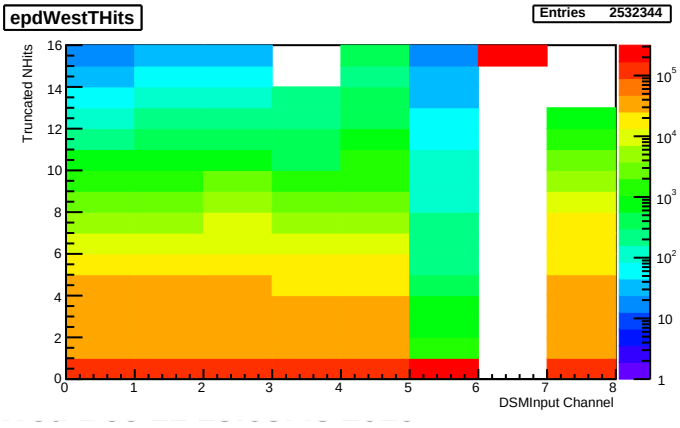
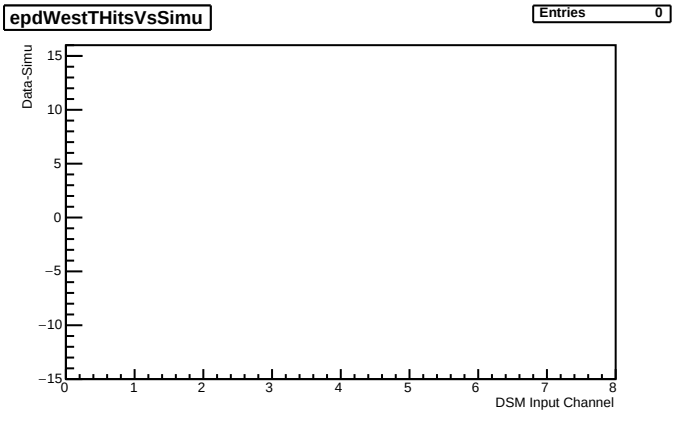
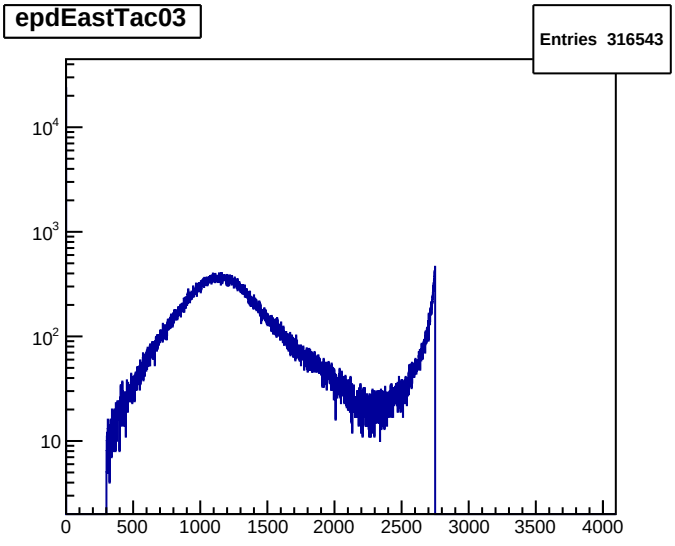
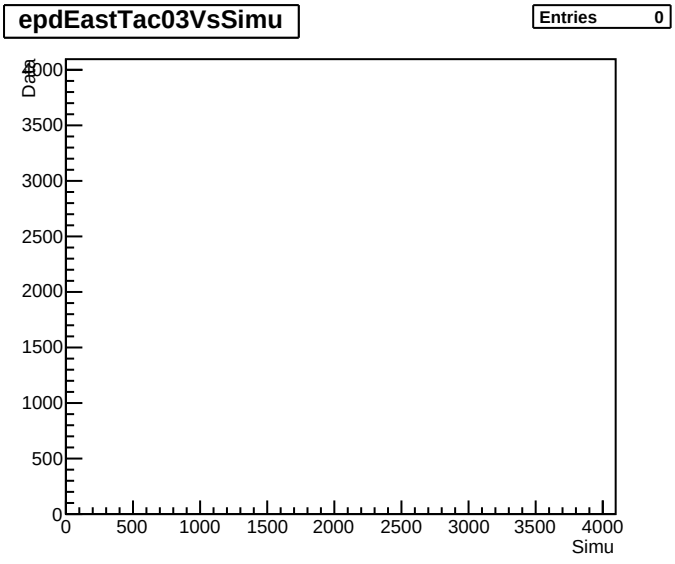
Entries 2532344
TAC
DSM Input Channel


epdWestTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdWestTHits
Entries 2532344
Truncated NHits
DSMInput Channel


epdWestTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdEastTac03
Entries 316543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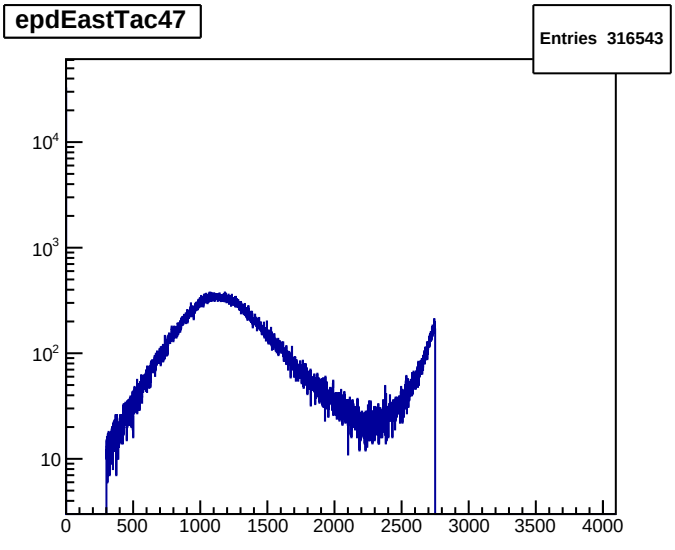
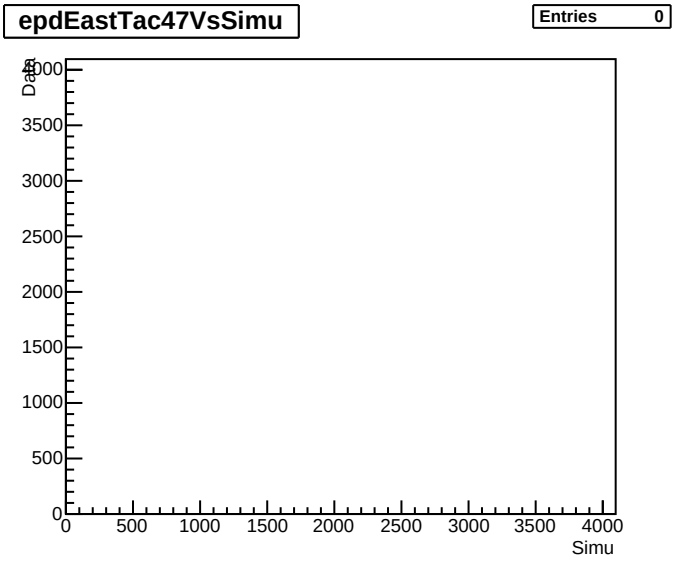
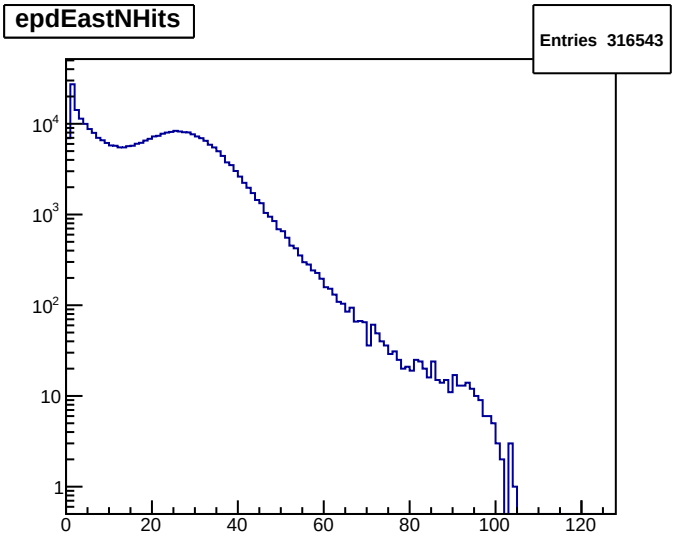
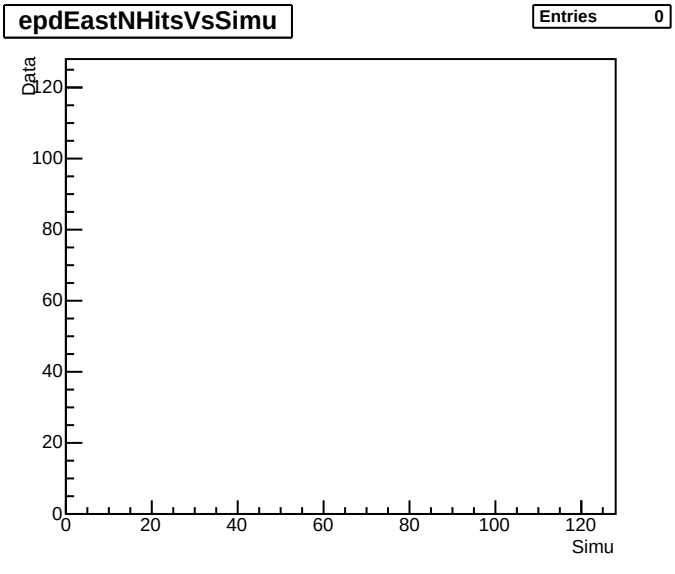
Entries 0
Data
Simu


epdEastTac47
Entries 316543


epdEastTac47VsSimu
Entries 0
Data
Simu


epdEastNHits
Entries 316543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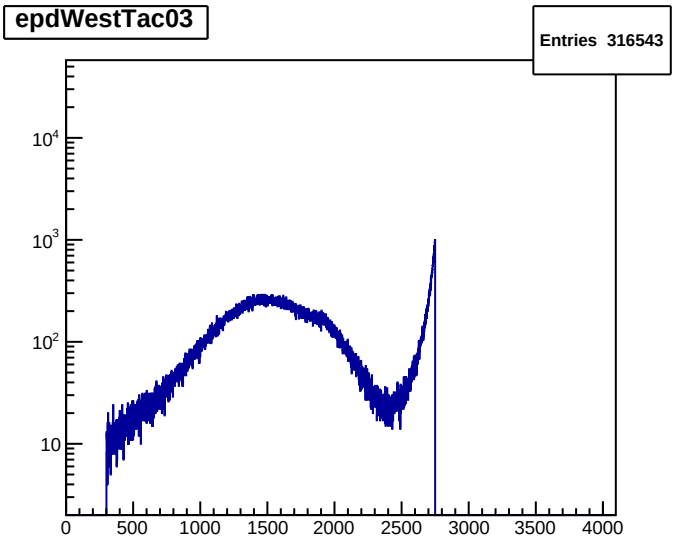
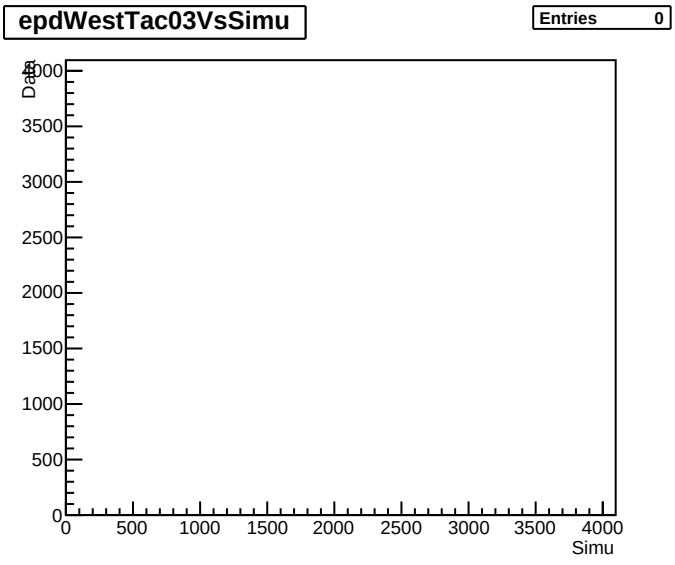
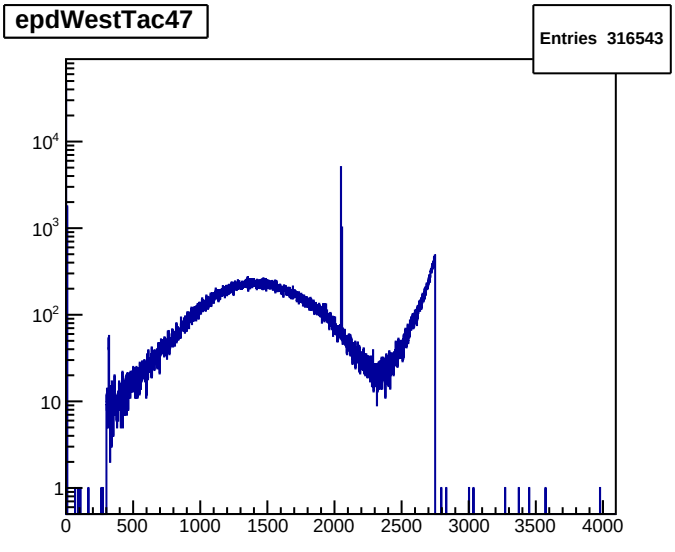
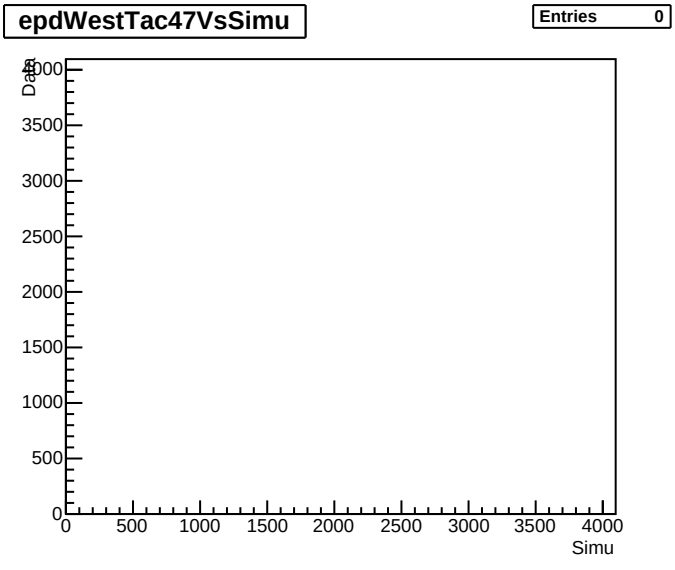
Entries 0
Data
Simu


epdWestTac03
Entries 316543


epdWestTac03VsSimu
Entries 0
Data
Simu


epdWestTac47
Entries 316543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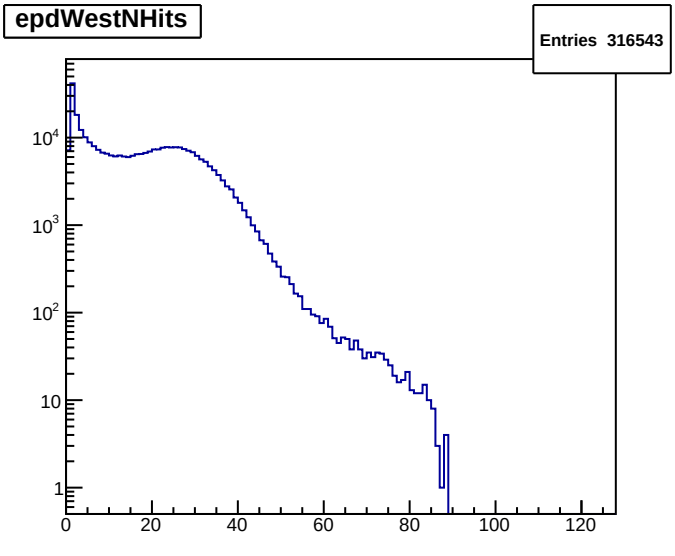
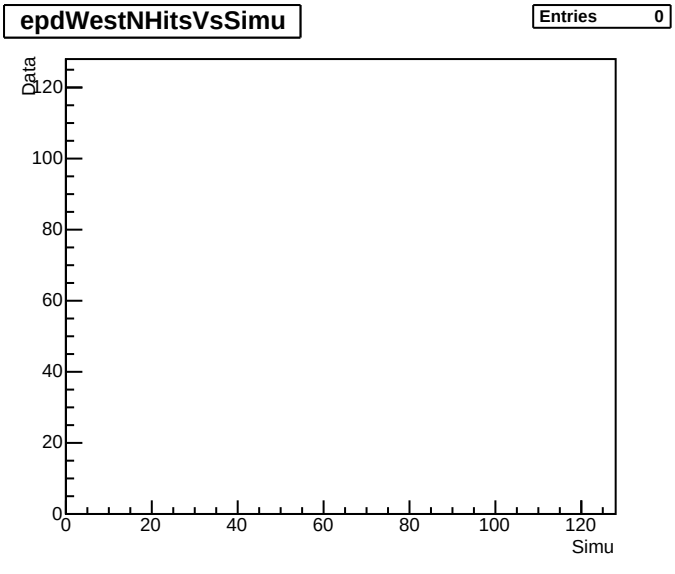
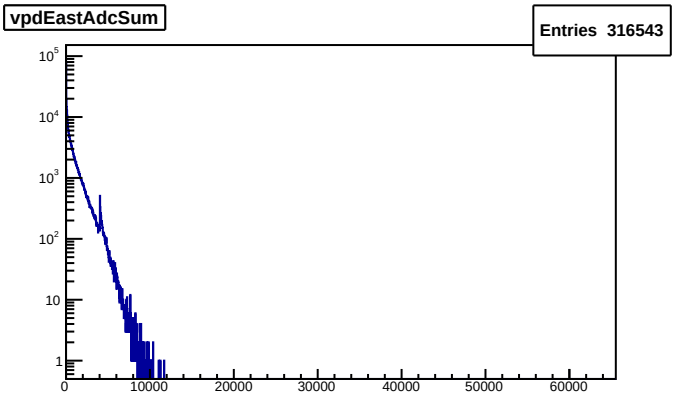
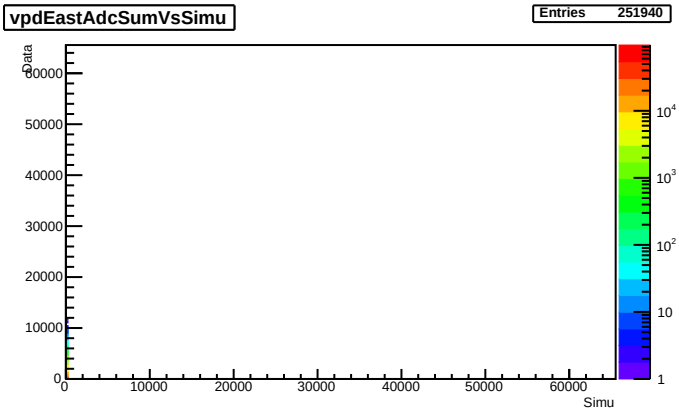
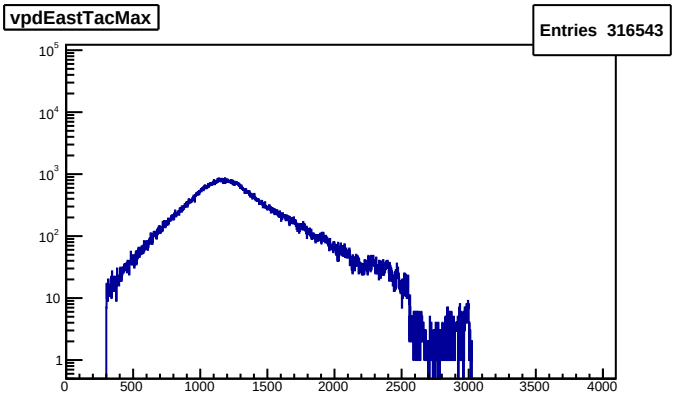
Entries 0
Data
Simu

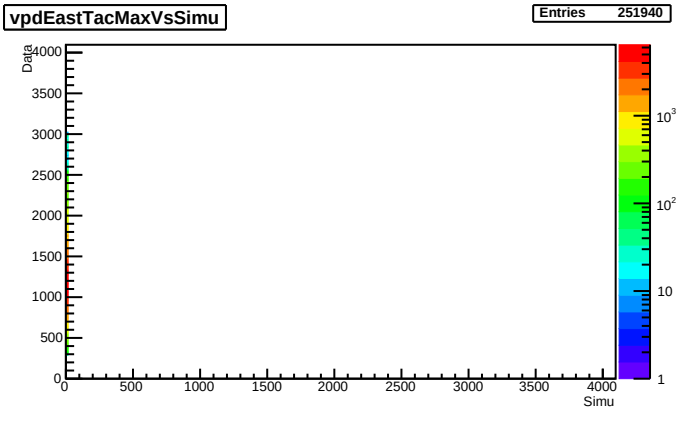

epdWestNHits
Entries 316543

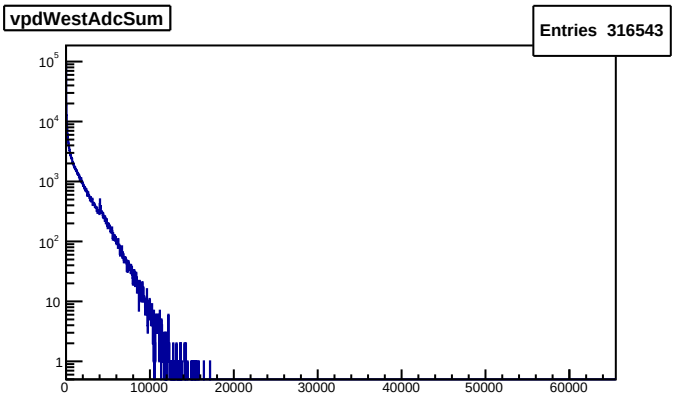

epdWestNHitsVsSimu
Entries 0
Data
Simu

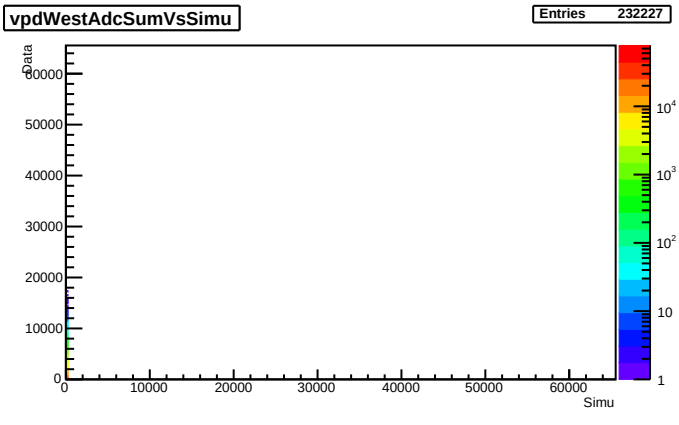

vpdEastAdcSum
Entries 316543

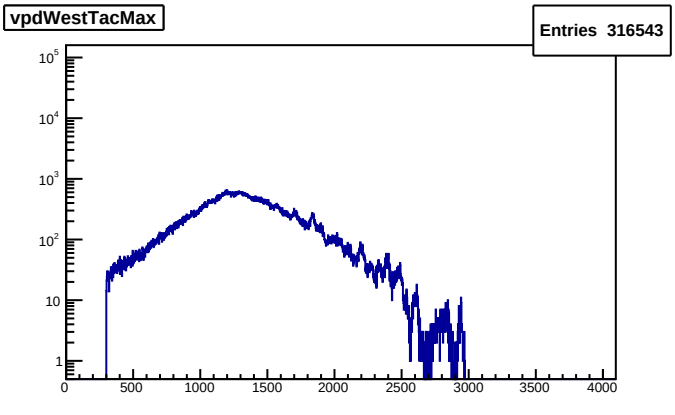

vpdEastAdcSumVsSimu
Entries 251940
Data
Simu

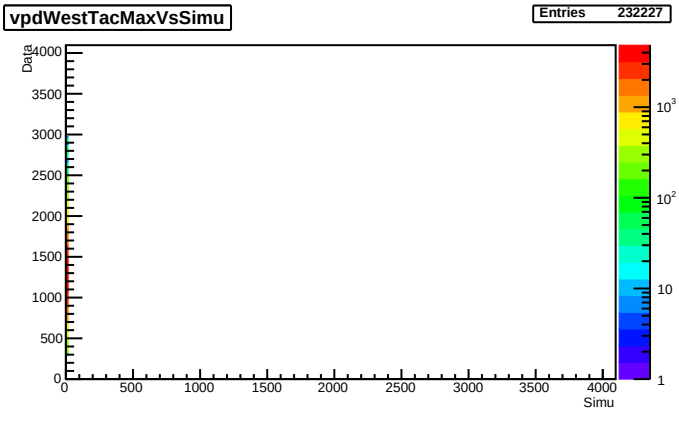

vpdEastTacMax
Entries 316543

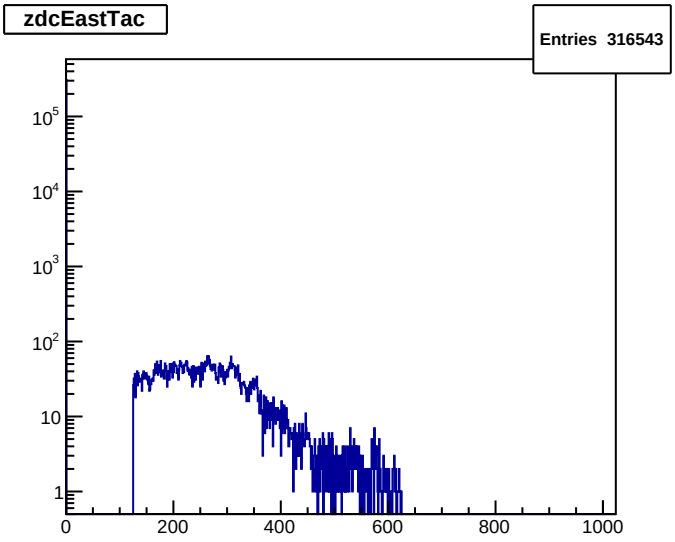

vpdEastTacMaxVsSimu
Entries 251940
Data
Simu

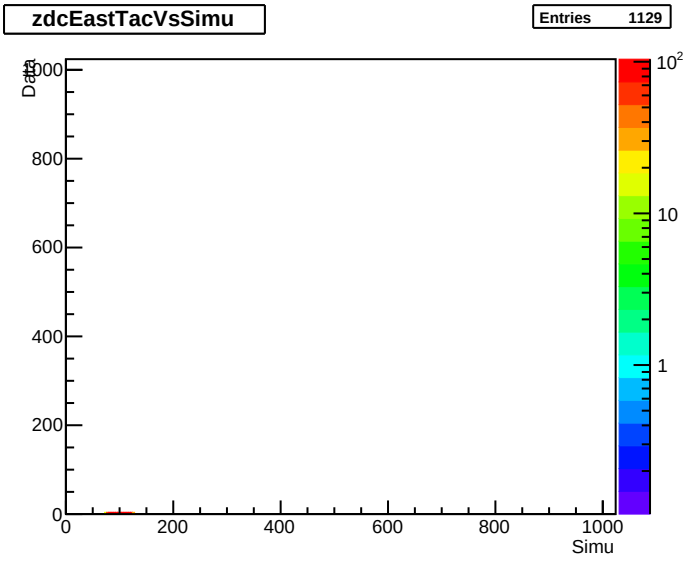

vpdWestAdcSum
Entries 316543

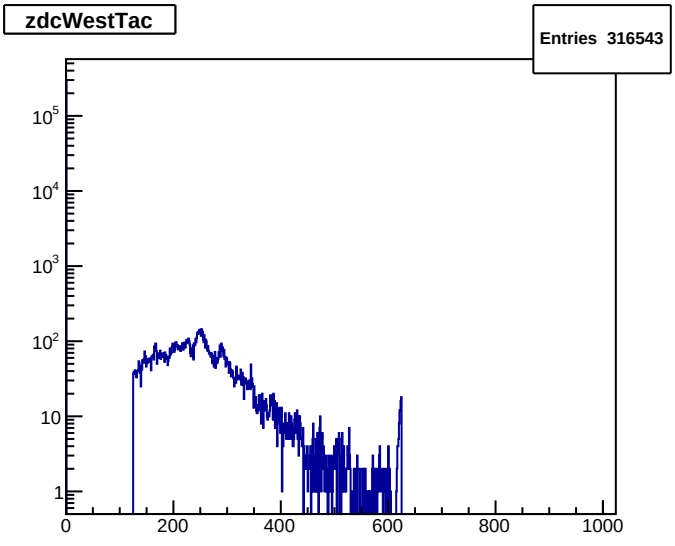

vpdWestAdcSumVsSimu
Entries 232227
Data
Simu

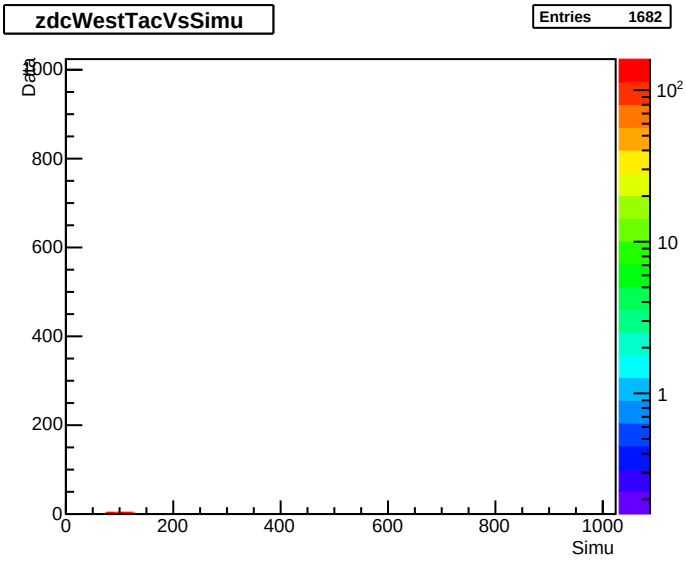

vpdWestTacMax
Entries 316543

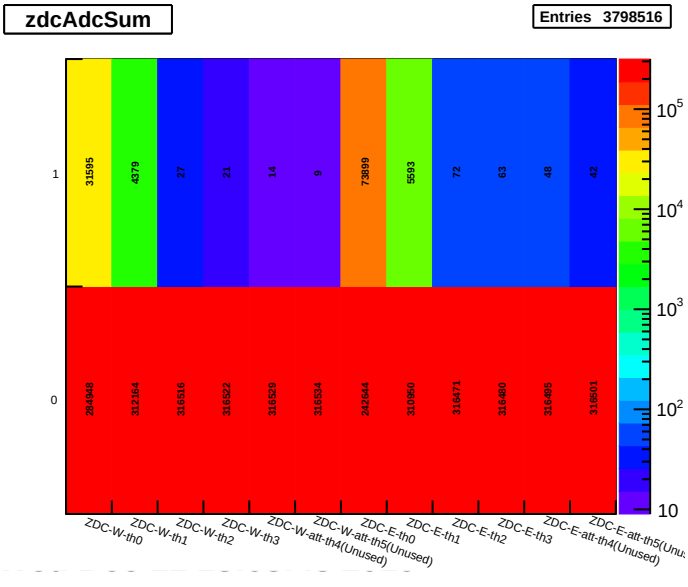

vpdWestTacMaxVsSimu
Entries 232227
Data
Simu

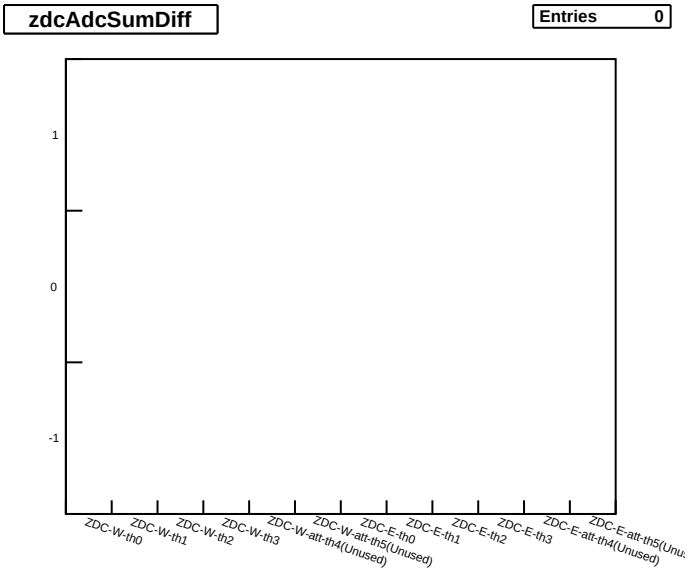

zdcEastTac
Entries 316543

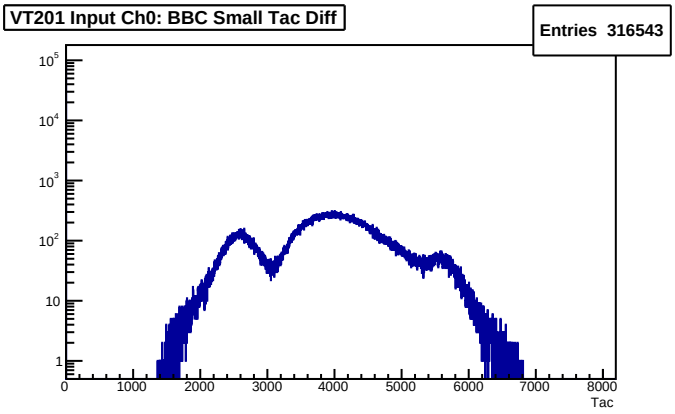

zdcEastTacVsSimu
Entries 1129
Data
Simu

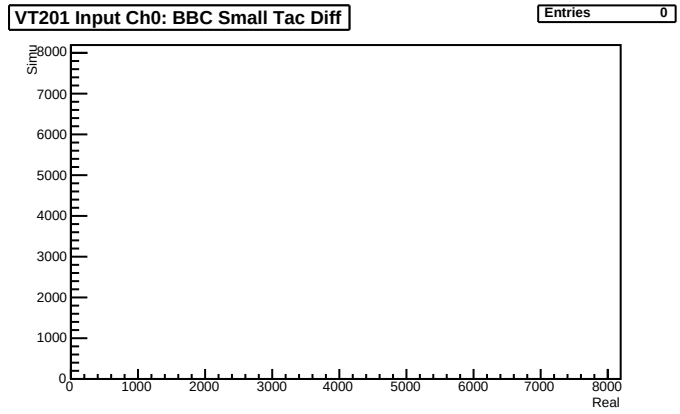

zdcWestTac
Entries 316543

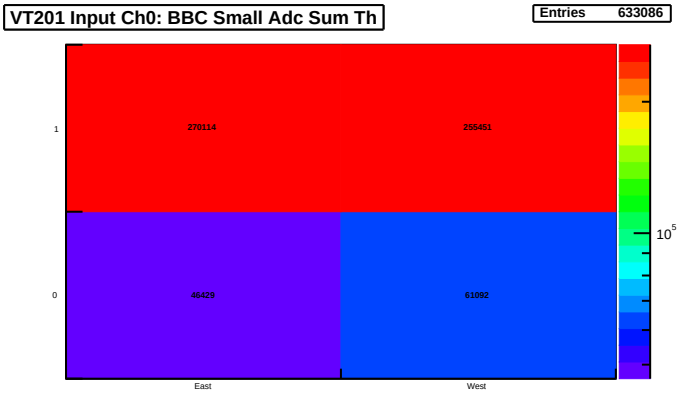

zdcWestTacVsSimu
Entries 1682
Data
Simu

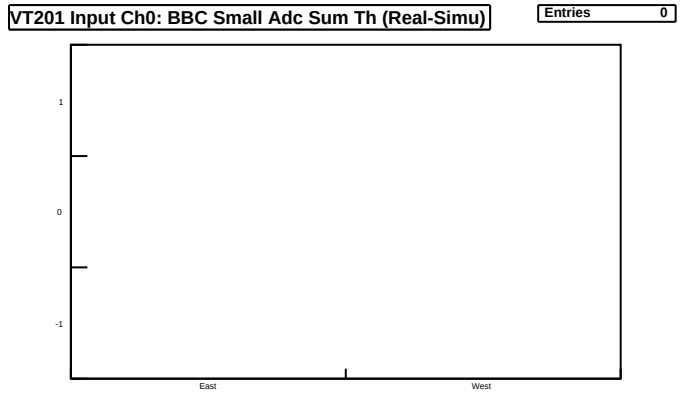

zdcAdcSum
Entries 3798516
31595
4379
27
21
14
9
73899
5593
72
63
48
42
284948
312164
316516
316522
316529
316534
242644
310860
316471
316480
316495
316501
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

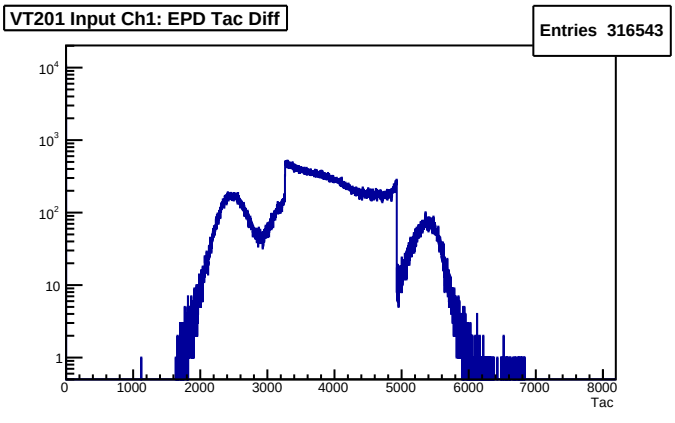

zdcAdcSumDiff
Entries 0
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

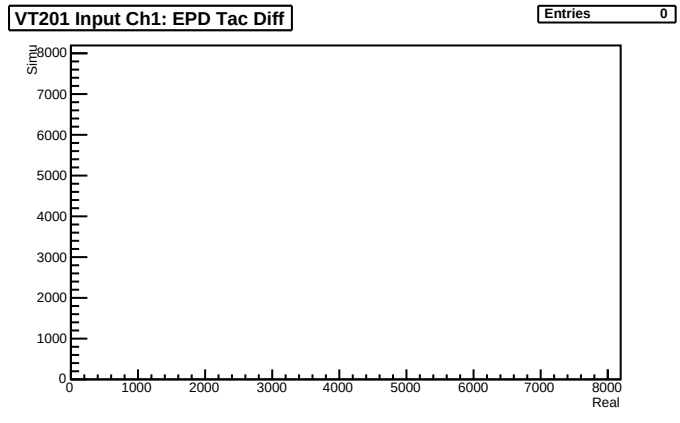

VT201 Input Ch0: BBC Small Tac Diff
Entries 316543
Tac

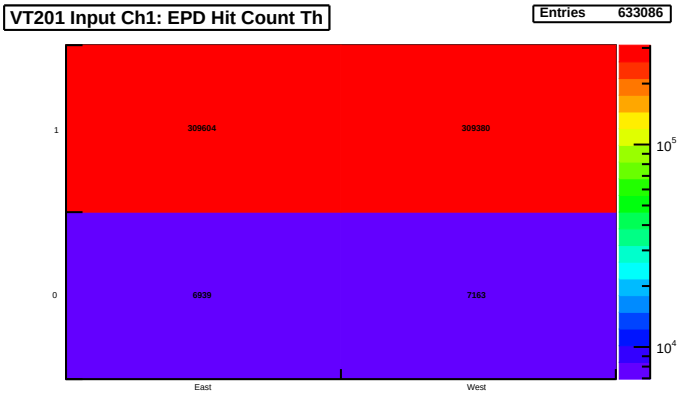

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

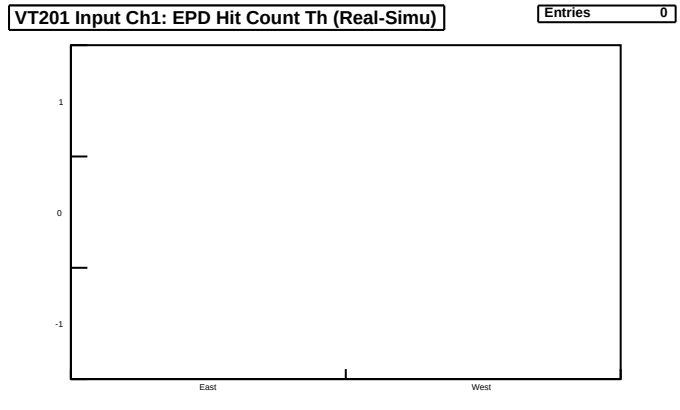

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 633086
270114
255451
46429
61092
East
West

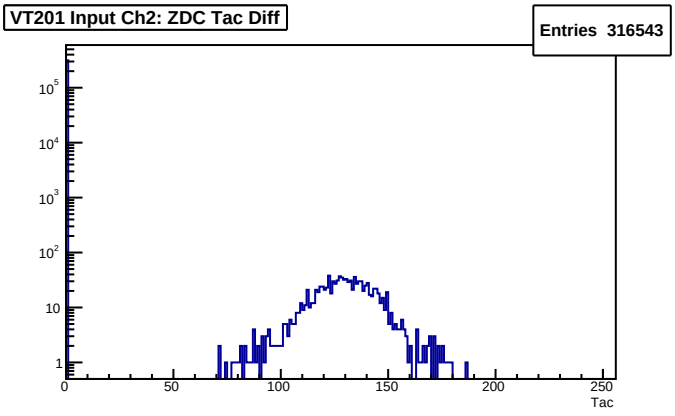

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

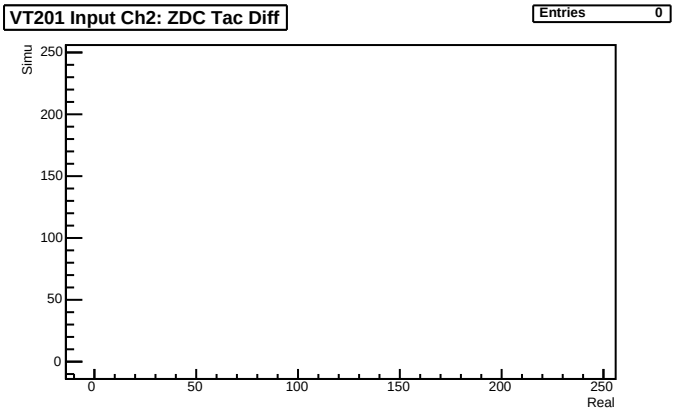

VT201 Input Ch1: EPD Tac Diff
Entries 316543
Tac

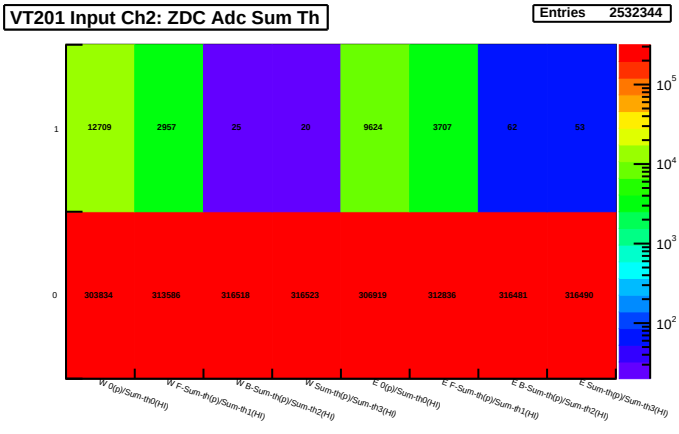

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

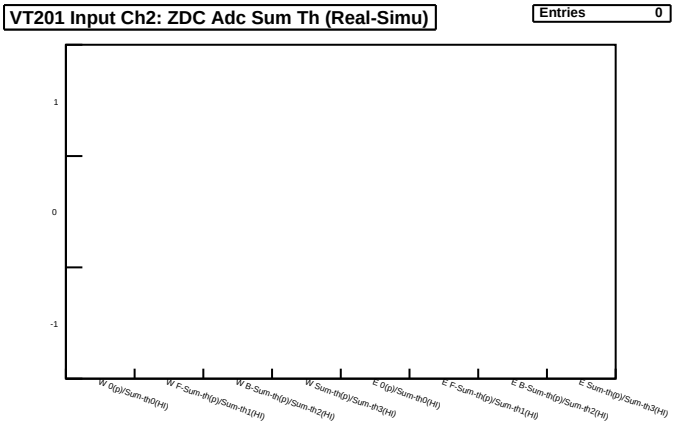

VT201 Input Ch1: EPD Hit Count Th
Entries 633086
309604
309380
6939
7163
East
West

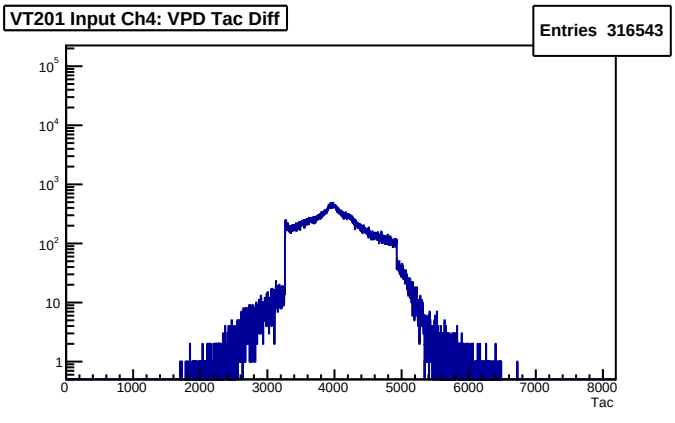

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

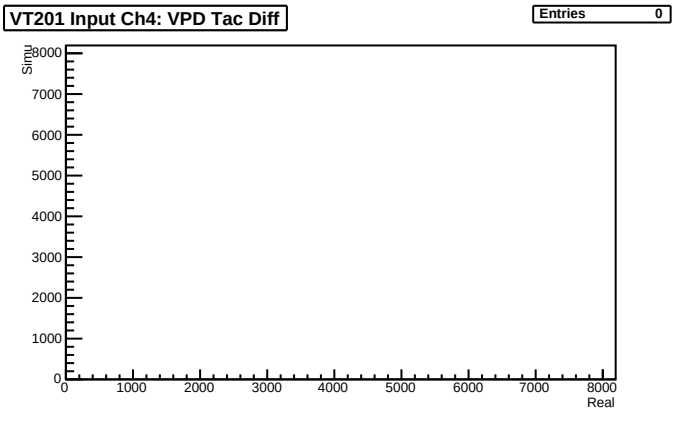

VT201 Input Ch2: ZDC Tac Diff
Entries 316543
Tac

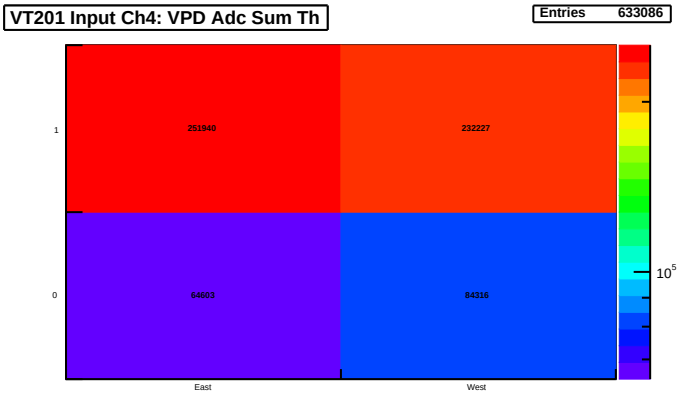

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

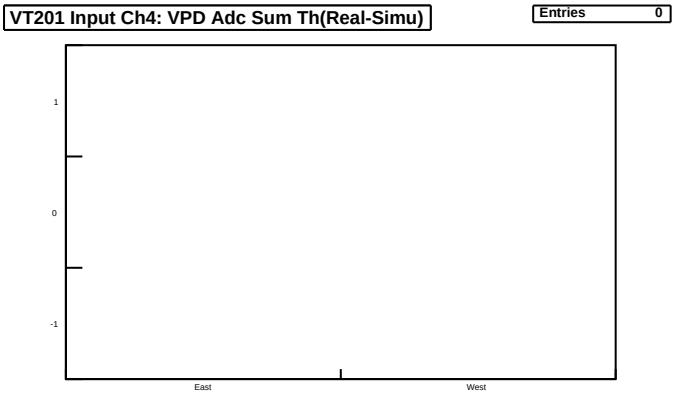

VT201 Input Ch2: ZDC Adc Sum Th
Entries 2532344
12709
2957
25
20
9624
3707
62
53
303834
313586
316518
316523
306919
312836
316481
316490
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

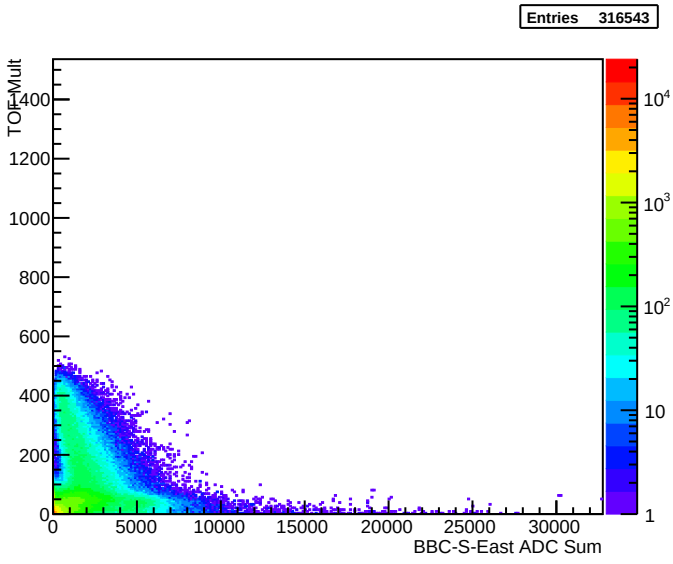

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

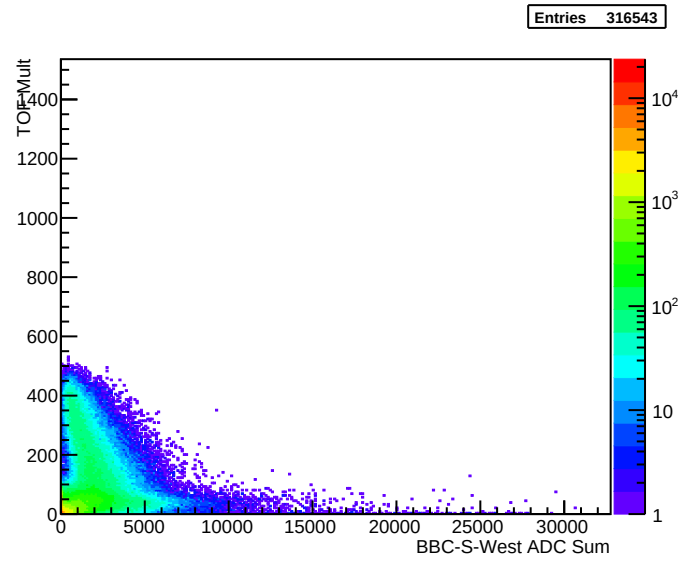

VT201 Input Ch4: VPD Tac Diff
Entries 316543
Tac

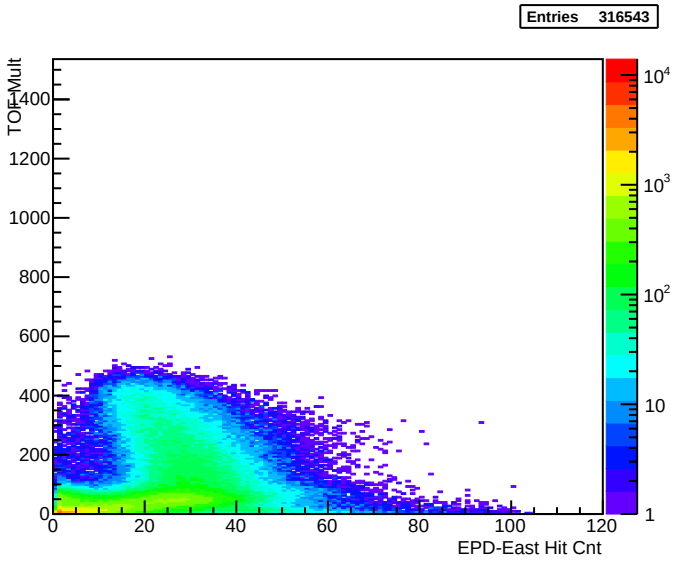

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

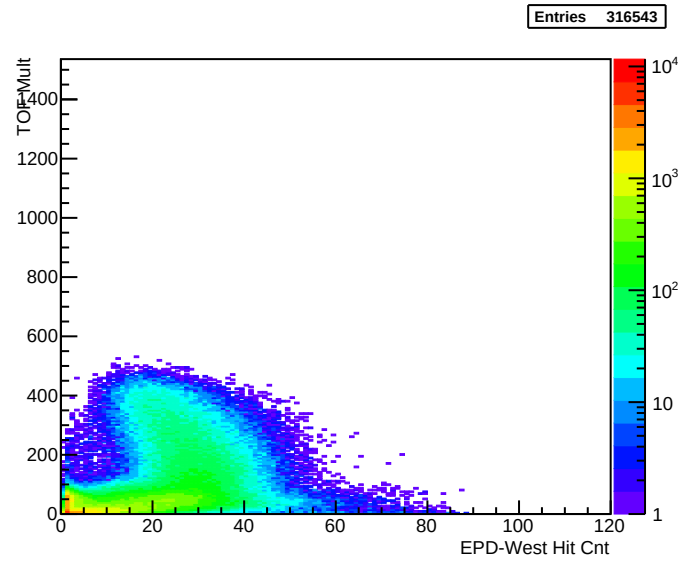

VT201 Input Ch4: VPD Adc Sum Th
Entries 633086
251940
232227
64603
84316
East
West

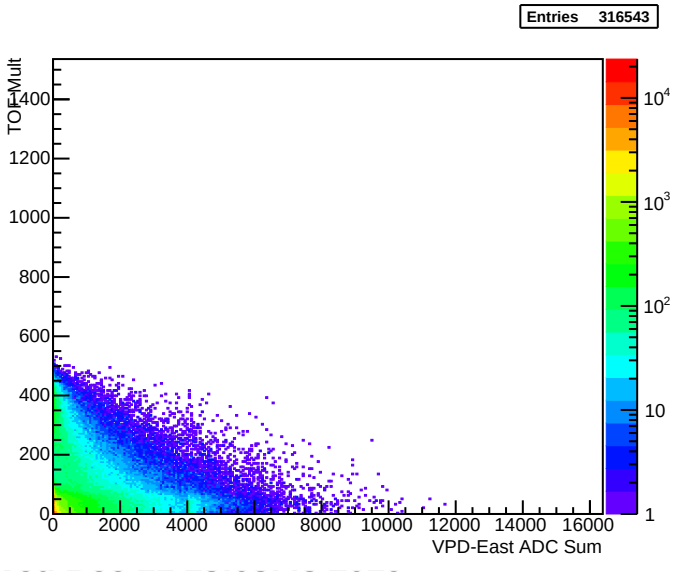

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

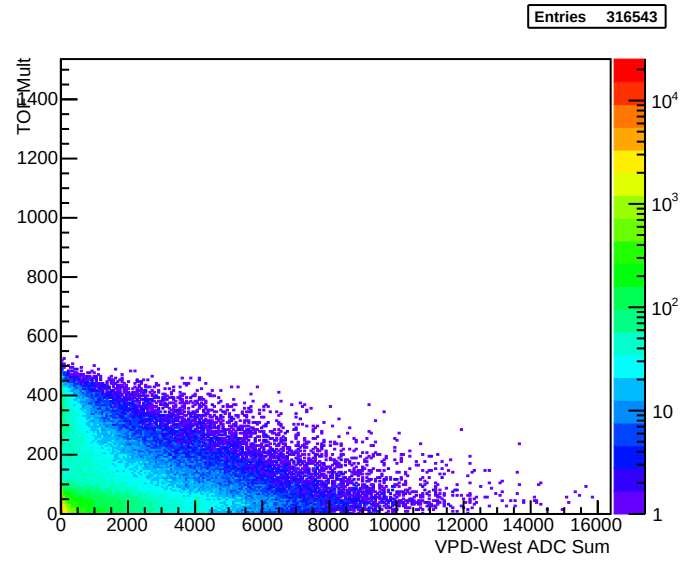

Entries 316543
TOF-Mult
BBC-S-East ADC Sum

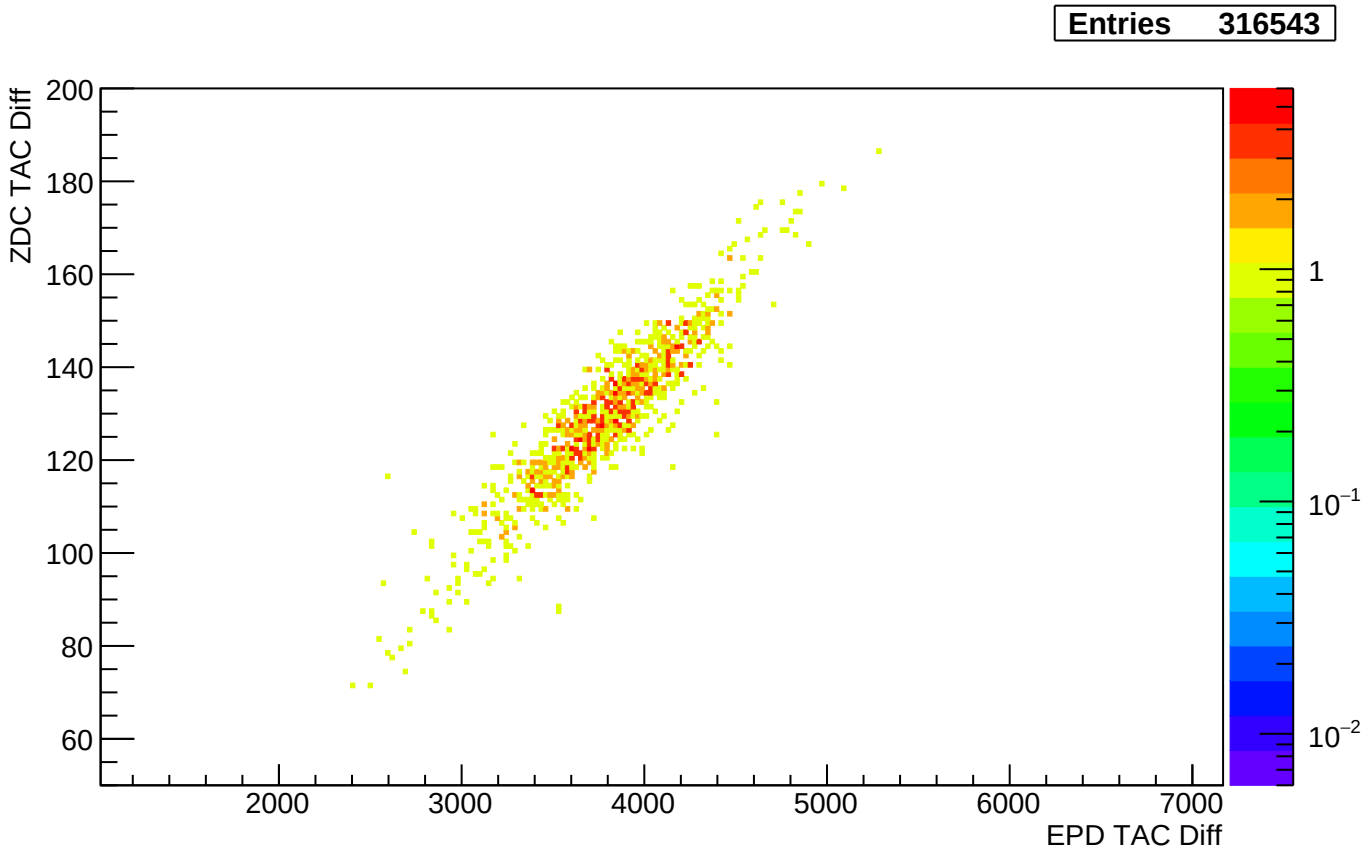

Entries 316543
TOF-Mult
BBC-S-West ADC Sum

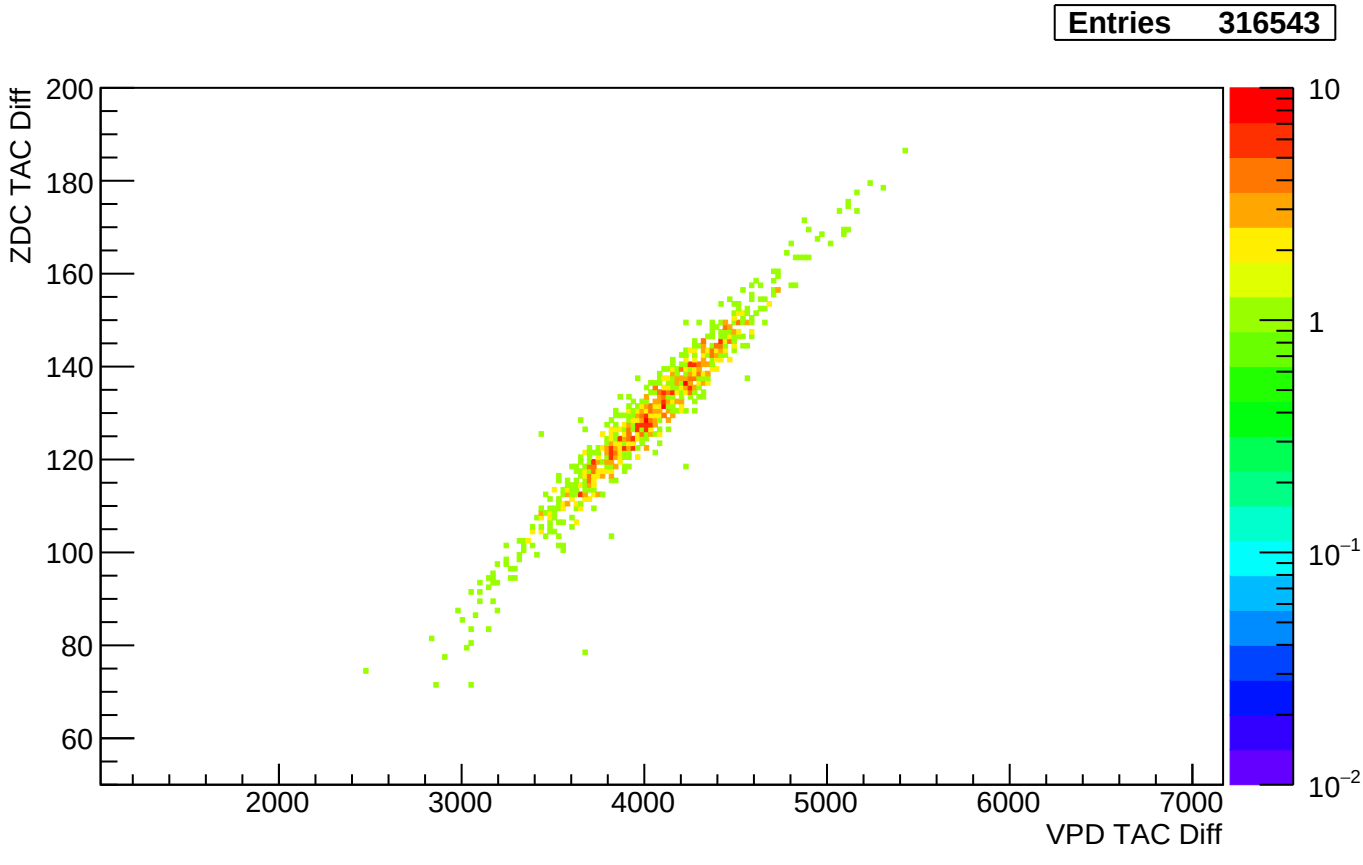

Entries 316543
TOF-Mult
EPD-East Hit Cnt

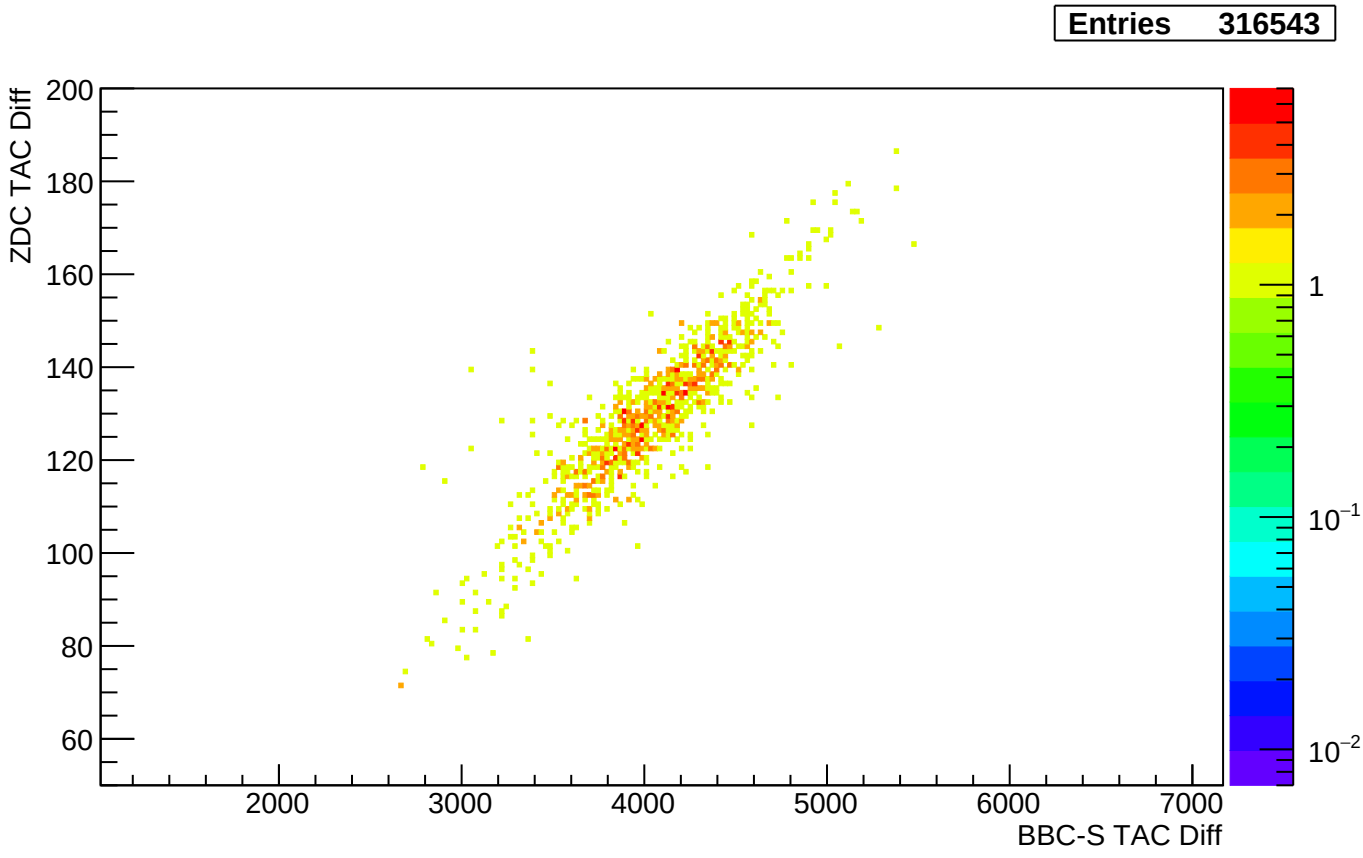

Entries 316543
TOF-Mult
EPD-West Hit Cnt

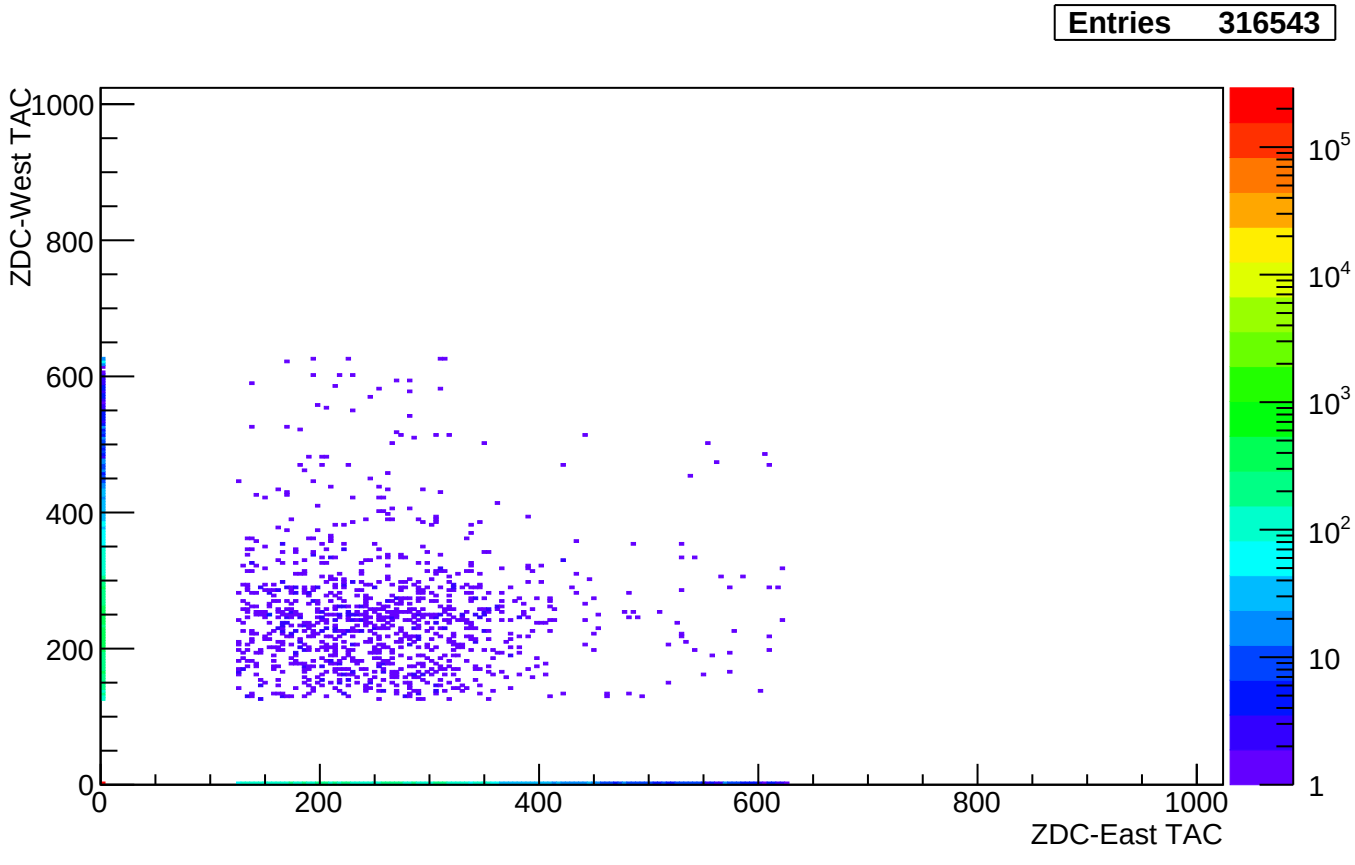

Entries 316543
TOF-Mult
VPD-East ADC Sum

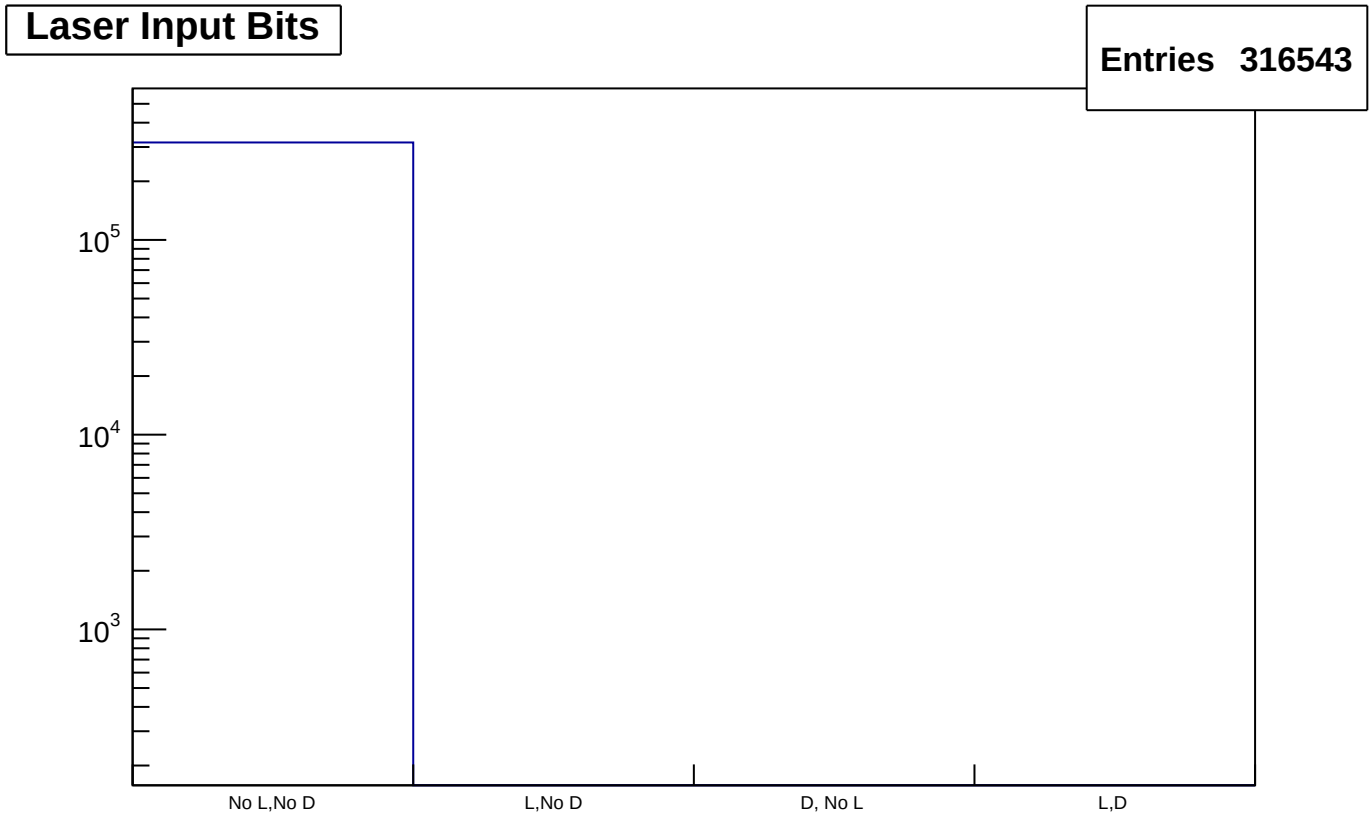

Entries 316543
TOF-Mult
VPD-West ADC Sum

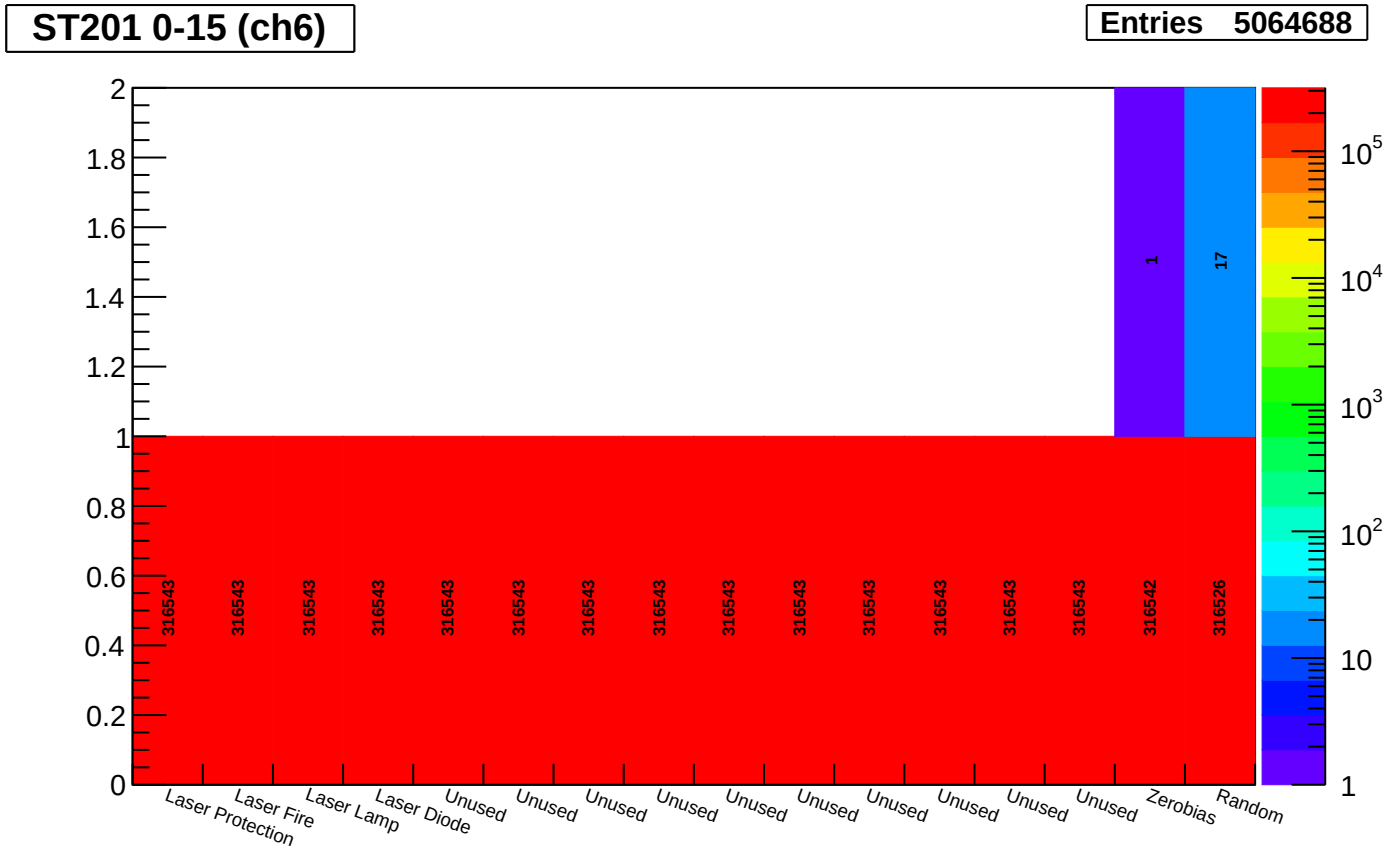

Entries 316543
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
EPD TAC Diff
1
10^{-1}
10^{-2}

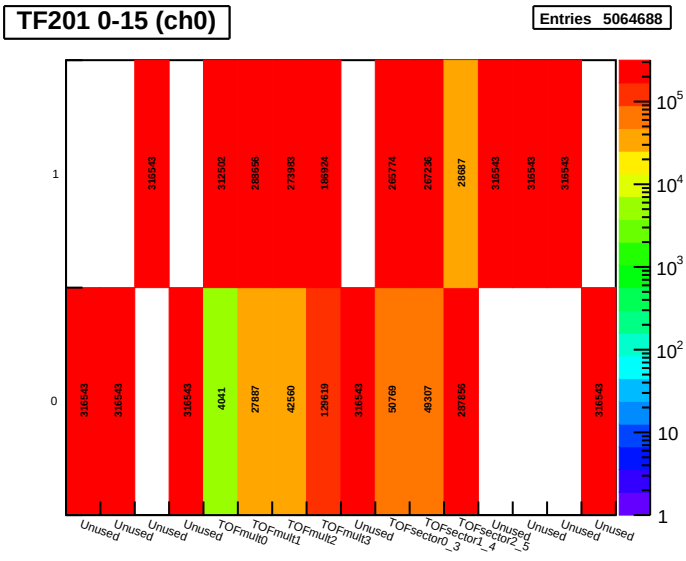

Entries 316543
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
VPD TAC Diff
10
1
10^{-1}
10^{-2}

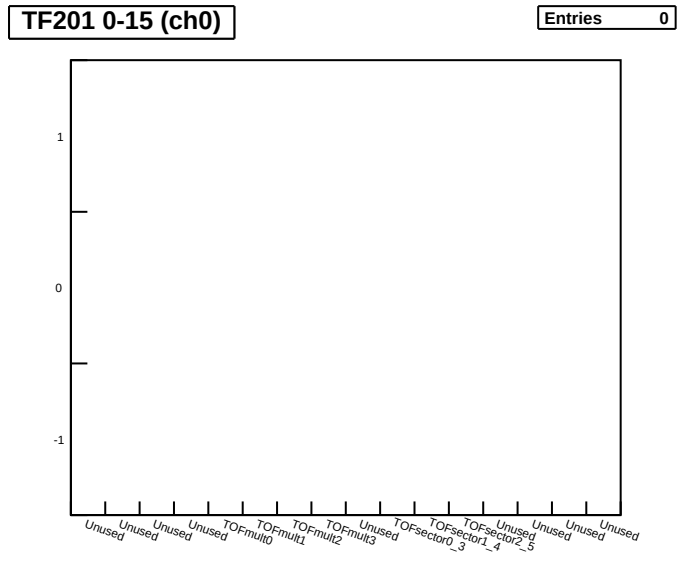

Entries 316543
ZDC TAC Diff
BBC-S TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
1
10^{-1}
10^{-2}

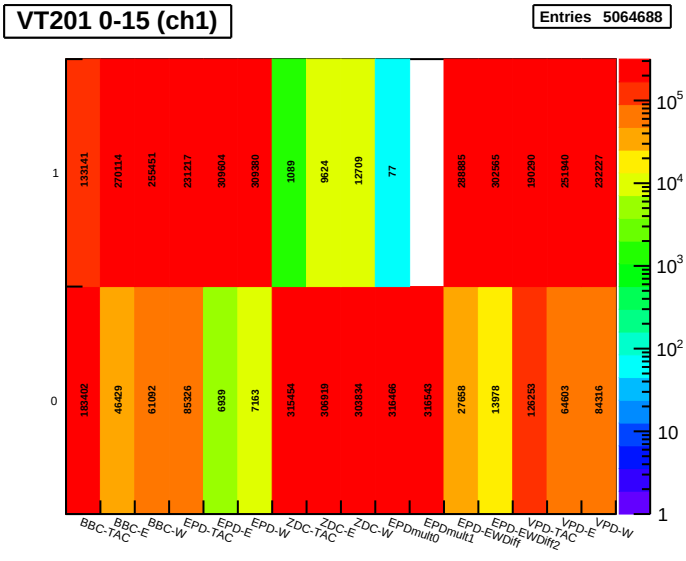

Entries 316543
ZDC-West TAC
ZDC-East TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
10^5
10^4
10^3
10^2
10
1

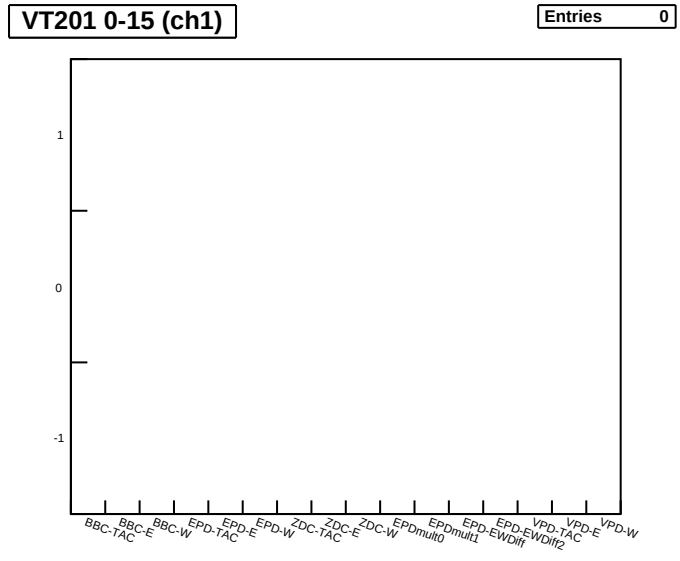

Laser Input Bits
Entries 316543
10^5
10^4
10^3
No L,No D
L,No D
D, No L
L,D

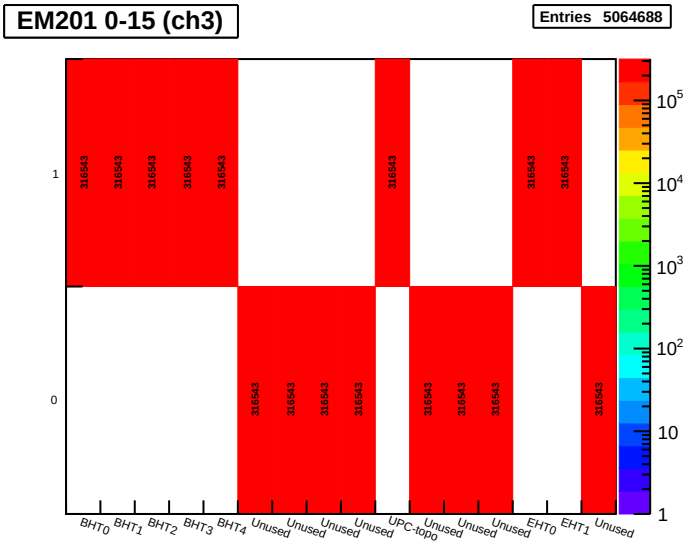

ST201 0-15 (ch6)
Entries 5064688
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
316543
316543
316543
316543
316543
316543
316543
316543
316543
316543
316543
316543
316543
316543
316542
316526
1
17
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Zerobias
Random
10^5
10^4
10^3
10^2
10
1

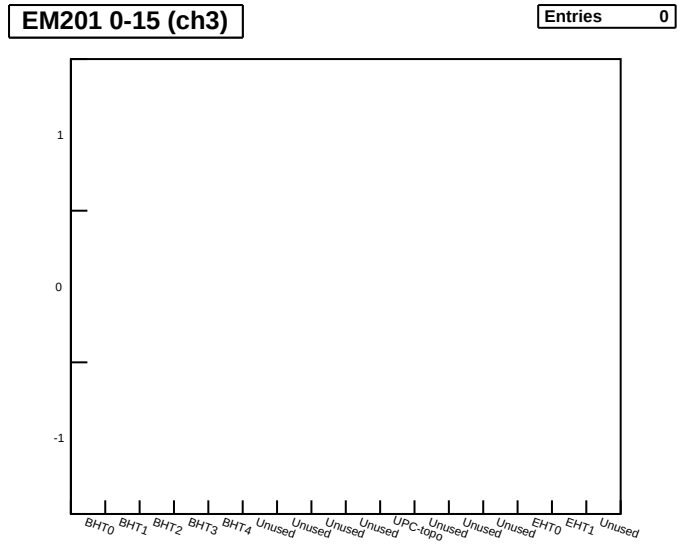

TF201 0-15 (ch0)
Entries 5064688
1
0
316543 312502 288656 273983 186924 265774 267236 28887 316543 316543 316543
316543 316543 316543 4041 27887 42560 129619 316543 50769 49307 287856 316543
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 TOFsector2_5 Unused Unused Unused Unused
10^5 10^4 10^3 10^2 10 1


TF201 0-15 (ch0)
Entries 0
1
0
-1
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 TOFsector2_5 Unused Unused Unused Unused


VT201 0-15 (ch1)
Entries 5064688
1
0
133141 270114 255451 231217 309604 309380 1089 9624 12709 77 288885 302565 190290 251940 232227
118402 46429 61092 85326 6939 7163 315454 306919 303834 316466 316543 27658 13978 126253 64603 84316
BBC-TAC BBC-E BBC-W EPD-TAC EPD-E EPD-W ZDC-TAC ZDC-E ZDC-W EPDmult0 EPDmult1 EPD-EWDiff EPD-EWDiff2 VPD-TAC VPD-E VPD-W
10^5 10^4 10^3 10^2 10 1


VT201 0-15 (ch1)
Entries 0
1
0
-1
BBC-TAC BBC-E BBC-W EPD-TAC EPD-E EPD-W ZDC-TAC ZDC-E ZDC-W EPDmult0 EPDmult1 EPD-EWDiff EPD-EWDiff2 VPD-TAC VPD-E VPD-W


EM201 0-15 (ch3)
Entries 5064688
1
0
316543 316543 316543 316543 316543 316543 316543 316543
316543 316543 316543 316543 316543 316543 316543 316543
BHT0 BHT1 BHT2 BHT3 BHT4 Unused Unused Unused Unused UPC-topo Unused Unused Unused EHT0 EHT1 Unused
10^5 10^4 10^3 10^2 10 1


EM201 0-15 (ch3)
Entries 0
1
0
-1
BHT0 BHT1 BHT2 BHT3 BHT4 Unused Unused Unused Unused UPC-topo Unused Unused Unused EHT0 EHT1 Unused